

#### OFFERING THE BEST **PPE SOLUTION AT THE BEST PRICE**

From the most technical need to the most standard, Delta Plus offers PPE solutions offering the best adaptation to the work area. t LISTEN TO THE USER **EVALUATE RISKS** THE CUSTOMISED AND NEEDS PPE SOLUTION To easily find the best PPE solution: There are 3 lines of research needed SNR @ CUTTING/ ANTISTATIC NOISE HEAT SHOCK FALL COLD/ PERFORATION WEATHER RISKS 7 S ES ΙΥ. SLIP BIOLOGICAL/ WEARING UV/IR ELECTRICAL HIGH VIS CHEMICAL **AGRICULTURE/GREEN AREAS** Farmers - Woodcutters - Gardeners .. CONSTRUCTION/ Structural work - Construction **CIVIL ENGINEERING** SECOND WORK/CRAFTSMAN Electricians - Plumbers - Heating specialists - Painters ... **HEAVY INDUSTRY** Metal construction - Petrochemical ... (Min LIGHT INDUSTRY Automotive - Aerospace - Industrial Subcontracting ... JOBS (16 SERVICES/LOGISTICS Logistics - Transportation - Airport - Distribution ... Food industry - Pharmacy - Hospitals - Restaurants **HYGIENE ENVIRONMENT** (DD Communities .. Petrochemical industry - Refinery - Off shore - Exploration X **OIL/GAS** Pipelines Ć MINING Mines (exploration, extraction ...) - Stone-pit (-{{ WIND ENERGY LEVELS OF THE RANGE PREMIUM **EVOLUTION ESSENTIAL** High Tech products Powerful multi-purpose Standard multi-purpose for specialised uses

products

products

## - SUMMARY The Global Offer

**001 •** HEAD PROTECTION

**066 •** HAND PROTECTION

**140 • DISPOSABLE WEAR** 

160 • WORK WEAR

204 • OUTDOOR WEAR

244 • TECHNICAL WEAR

268 • FOOT PROTECTION

**308 •** FALL PROTECTION

374 • PACKAGING

376 • MERCHANDISING

**380 •** ALPIC - DPG TRAINING

**381 • TECHNICAL INFORMATION** 

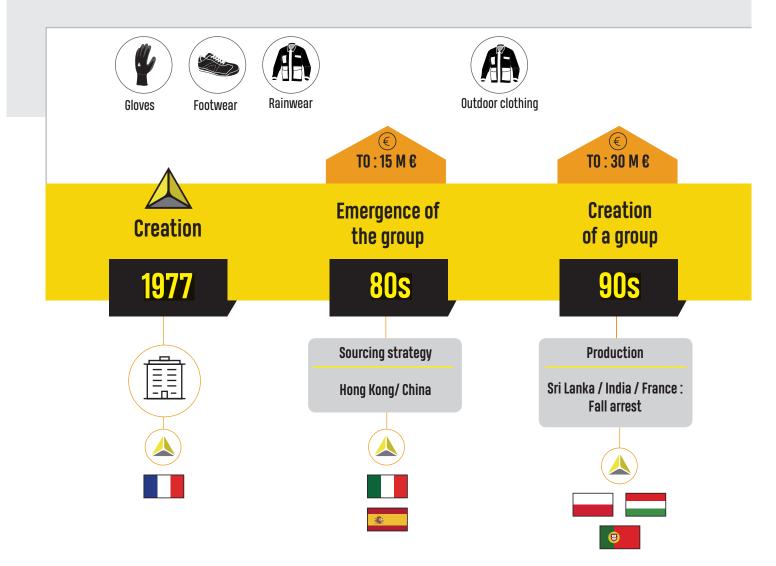
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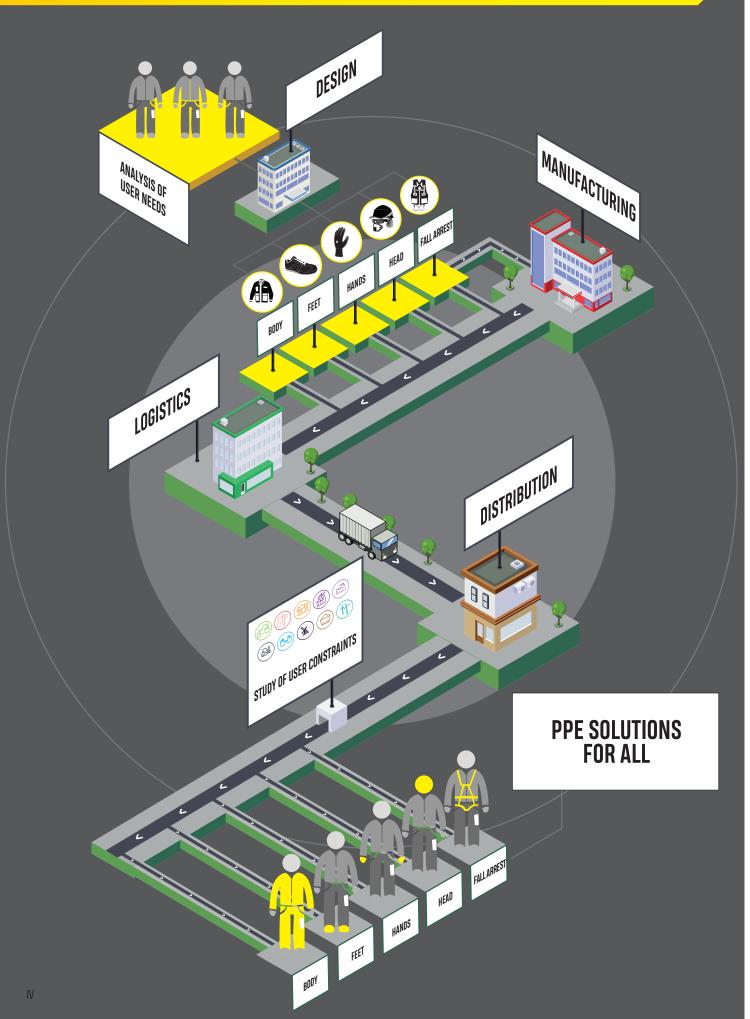
## <sup>E</sup> DELTA PLUS A DYNAMIC HISTORY

Delta Plus's mission is to protect the man at work. To achieve it, the **Delta Plus team** has mobilized its know-how, its imagination, adaptability and pioneering spirit for over 40 years.



#### Head to toe for all: 5 families of products 阐 AB 阁 Workwear Shoes **Fall Arrest** Head € € € TO 2018 : TO:62 M € TO : 160 M € 240 M € **Technical and Production turning point** geographical expansion Globalisation 2000s 2010s 1999 Production Production **Initial public** offering **Argentina: Fall arrest** China : head protection equipment China: safety footwear Brazil : head production India: safety footwear Canada : Head production Middle East: Fall arrest C\* 30 distribution subsidiaries 8 production sites **5 logistics platforms** 1,900 employees

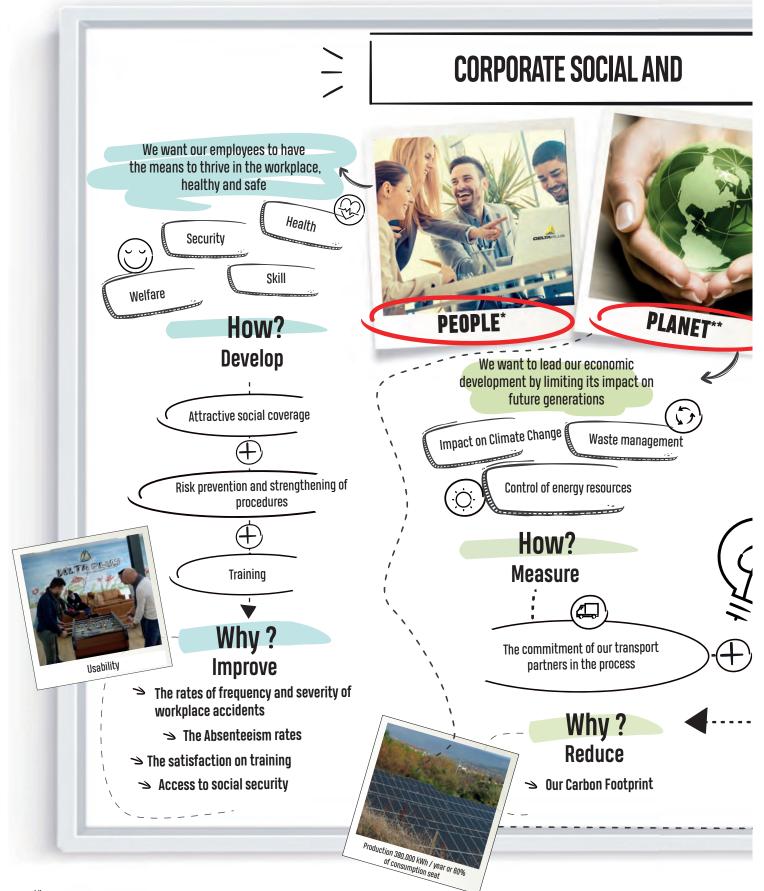
## DELTA PLUS THE MISSION





## DELTA PLUS The CSR Approach

Building on 10 years of commitment, we are intensifying our efforts to improve our impact on society and the environment. In addition, we obtained ISO14001 certification level 1 in 2018.





\* People \*\* Planet \*\*\* Sustainable economy

# DELTA PLUS









TRAINING

HOTLINES

JOINT VISITS



A TEAM OF 280 EXPERT PPE SPECIALISTS ACROSS FIELD AND ADMINISTRATION ARE AVAILABLE TO YOU

#### A GLOBAL DISTRIBUTION NETWORK: THE DELTA PLUS OFFER ACCESSIBLE ANYWHERE



30 distribution subsidiaries

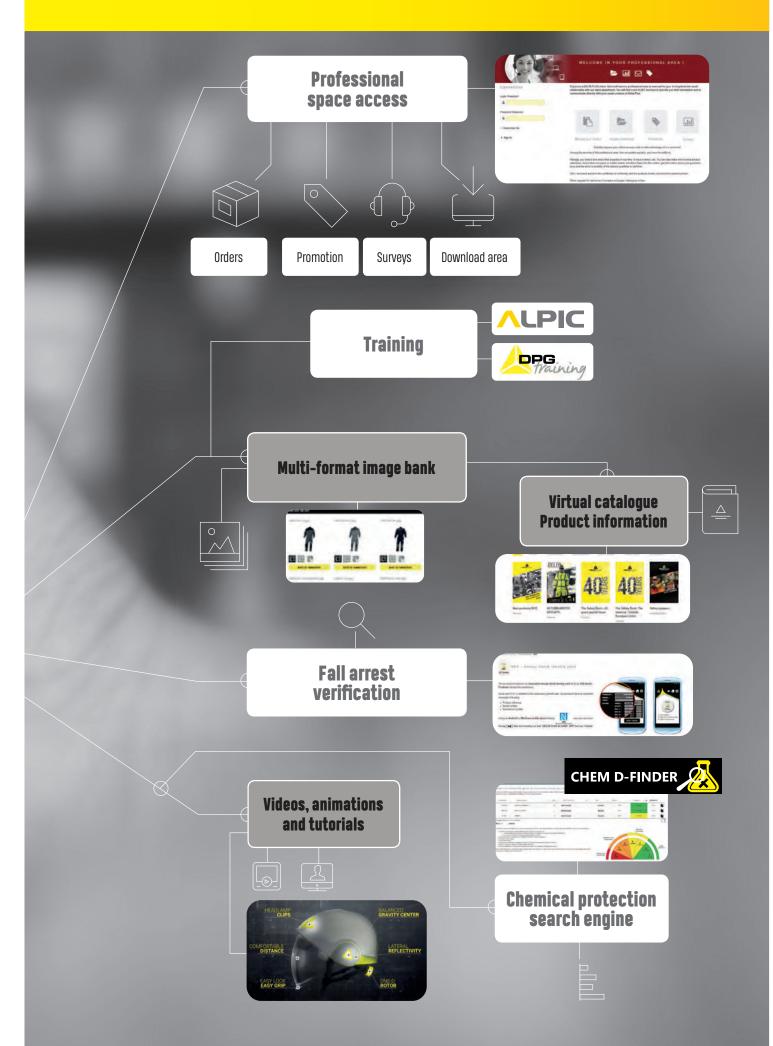


Our Products are in more than 140 countries



## DELTA PLUS THE WEBSITE





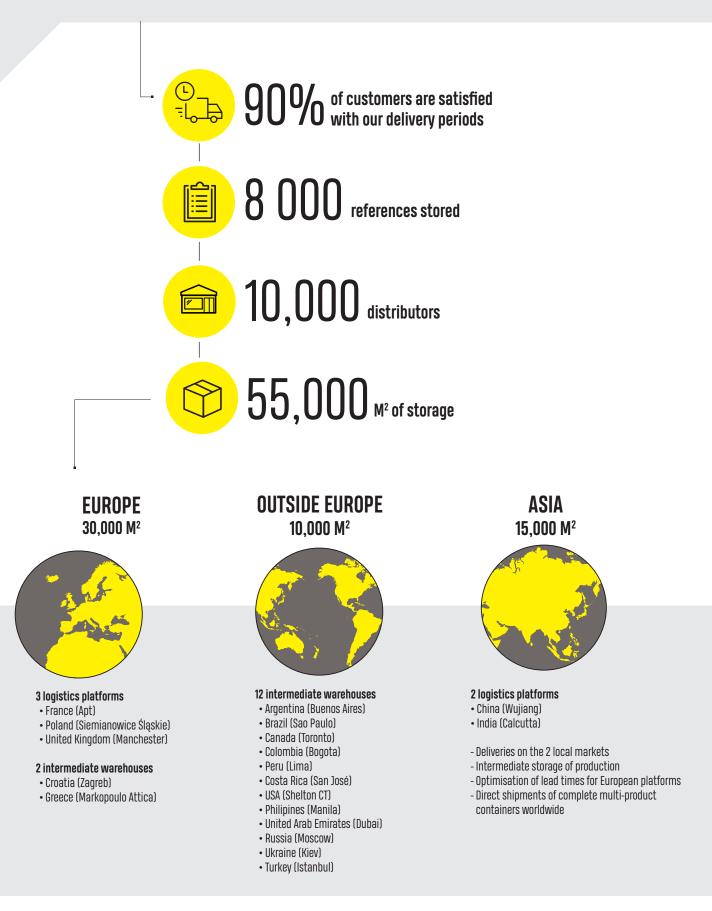
## DELTA PLUS AN INNOVATIVE OFFERING

Ĵo Delta Plus offers PPE solutions that provide the best fit +for the workplace, from the most technical to the most × standard requirements Listening to The right PPE Estimating his risks the customer and needs solution INNOVATION COMFORT RISKS Y **STANDARDISATION** 的 DESIGN × S  $\mathbb{C}$ **QUALITY / PRICE** A \*\*\* er \*鎌 SPORT WORKER ENVIRONMENT AND CONSTRAINTS R&D 52 0 °O.  $\tilde{\mathbf{0}}$ 4 million Euro/ year 7000 hours of **25 dedicated** tests / year people

new products / year

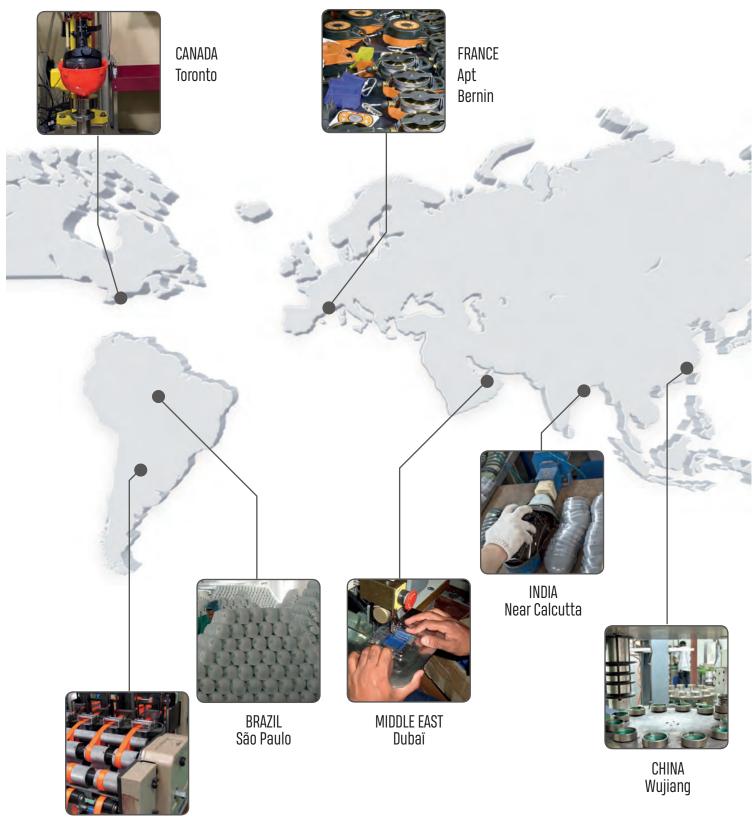
### **A SUCCESSFULLY INTEGRATED SUPPLY CHAIN**

Through this organisation, **DELTA PLUS offers you access to its range wherever you are in the world** with the most efficient service level on the worldwide PPE market.



## - MADE IN DELTA PLUS

Delta Plus's organisation enables it to develop its ranges by optimising its industrial strategy, between its **8 production sites** and its partner's factories.



ARGENTINA Buenos Aires

## **QUALITY AND INTEGRATED OR CONTROLLED PRODUCTION**

#### Delta Plus ensures the quality and manufacturing control of its products whether in their own factories or their partners' by imposing:

- Compliance with their common manufacturing charter
- The constraints of their technical specifications
- A series of ongoing tests and the end of production (our internal laboratories have a fleet of almost 200 machines and test equipment)

All the group production sites operate under the certified quality system ISO 9001. All the concerned sites are certified according to the module D of the European Regulation 2016/425 (PPE Category III disabling or fatal risks).

# 60% 100% 70% of our fall arrest range of our head range of our footwear range protection

#### An increasingly integrated manufacture:

# DESIGNING MANUFACTURING YOUR SAFETY AT WORK

## **HEAD PROTECTION**

#### EYEWEAR PROTECTION

- 004 Safety glasses Help with choice
- 005 Safety glasses
- 020 Safety goggles
- 022 Welding Help with choice
- 023 Welding
- 026 Safety visors- Help with choice
- 027 Safety visors

#### SKULL PROTECTION

- 032 Safety helmets Help with choice
- 033 Safety helmets
- 041 Helmets accessories Marking
- 042 Bump cap

#### **HEARING PROTECTION**

- 044 Ear defenders Help with choice
- 045 Ear defenders
- 049 Reusable earplugs
- 050 Disposable earplugs

#### **RESPIRATORY PROTECTION**

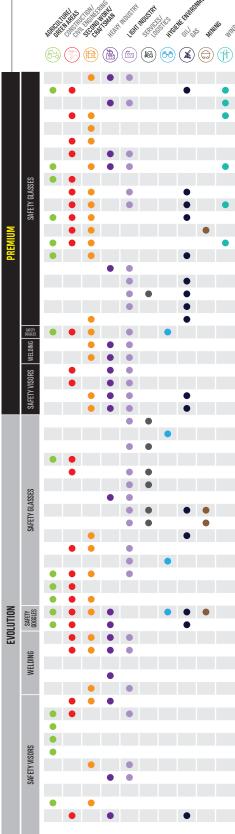
- 052 Help with choice
- 054 Disposable respiratory
- 061 Reusable respiratory

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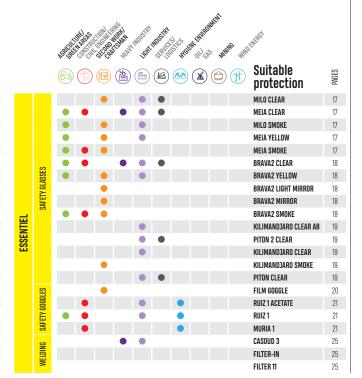


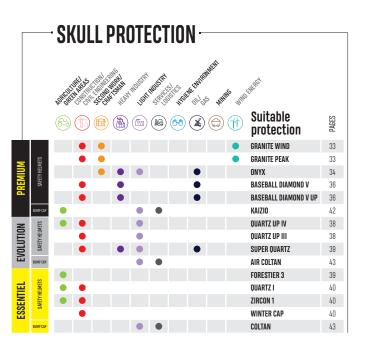
#### HEAD PROTECTION HELP WITH CHOICE

**EYEWEAR PROTECTION** 

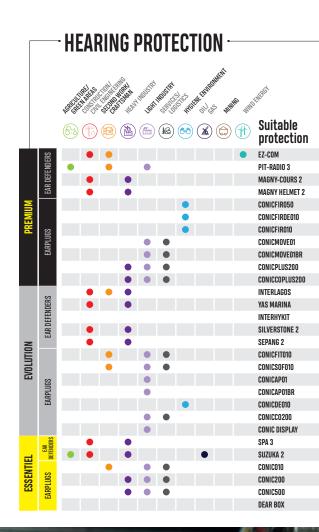


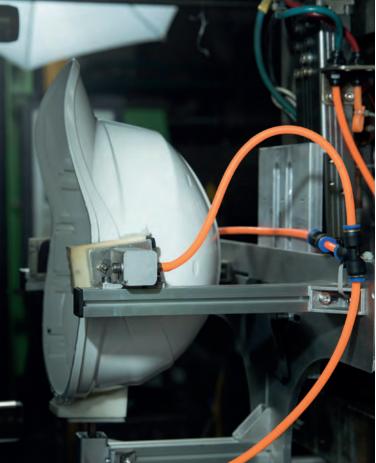
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BLOW2 MIRROR	5
<b>BLOW2 LIGHT MIRROR</b>	5
<b>RIMFIRE POLARIZED</b>	6
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RIMFIRE MIRROR	6
ASO2 CLEAR	7
GO-SPECS TEC CLEAR	7
ASO2 SMOKE	7
PACAYA CLEAR LYVIZ	8
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PACAYA SMOKE LYVIZ	8
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EGON CLEAR	16
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NOTOOL         Magazia         Si           Magazia         Magazia         Si <td></td> <td>ISABLE</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		ISABLE					_							
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NOTION         M1200VB         59           M1200VBW         59           M1200VBW         59           M1300VP         59           M1300VP         59           M1300VP         59           M1300VP         59           M1300VP         59           M1200VBW         59           M1300VP         59           M1200VP         59           M1200VP         59           M1200VP         59           M1200VP         59           M1200VP         59           M1200VP         59           M1200VPW         59           M6400 MARS KIT         65           M6400 MARS KIT         65           M6400 MARS KIT         65           M6400 CHEM KIT         65           M6000 A1         65           M6000 PREP2         65           M60000 PREP2         65           M60000 PREP3         65           M60000 P2         65           M60000 P3         65           M60000 P3         65           M60000 P3         65           M1100         58		BLE RES		•	•	•		•						
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#### + EYEWEAR PROTECTION HELP WITH CHOICE



INDOOR

_	– Glass	es											DOR DOR / INDOOR
		BLOW2 CLEAR	BLOW2 MIRROR	BLOW2 LIGHT MIRROR	RIMFIRE Clear	Premium Rimfire Polarized	RIMFIRE MIRROR	ASO2 Clear	ASO2 SMOKE	GO-SPECS TEC Clear	PACAYA Clear lyviz	PACAYA CLEAR Strap Lyviz	PACAYA Smoke lyviz
					S		5	S	5		$\mathbf{Q}$	5	
	EN170												
	EN172		*			*	*		*				*
-	ANSI 287.1				+	+	+	+	+	+	+	+	+
					PREMIUM						EVOLUTION		
		PACAYA Clear	PACAYA Clear Strap	PACAYA Smoke	FUJI2 Clear	FUJI2 GRADIENT	THUNDER CLEAR	THUNDER SMOKE	HELIUM Blue Blocker	HELIUM Detectable	KISKA2 Clear	KISKA2 Smoke	FUEGO
		$\mathcal{N}_{\mathcal{N}}$	$\sim$		a l		S )		$\sim$				
	EN170												
	EN172			*		*		*				*	
EN166	ANSI Z87.1	+	+	+	+	+			+	+			
E						EVOLUTION						ESSENTIAL	
		EGON CLEAR	EGON LIGHT MIRROR	EGON SMOKE	EGON YELLOW	LIPARI2 Clear	HEKLA2 Clear	VULCANO2 Plus clear	VULCANO2 CLEAR	VULCANO2 SMOKE	MILO CLEAR	MILO SMOKE	MEIA Clear
	V						2				C 1		
		· · · ·	N 7	N 7	> 7					> )			N - 7
	EN170	· · ·	× 7	× 7	7								
	EN170 EN172		<b>•</b>	*	▲ 7					*		*	
		+	+	* 7	+	+		+	*	× ) * +	•	*	
-	EN172						ESSEI	+			•	*	\` / ♠
-	EN172							+			KILIMANDJARO SMOKE	PITON2 CLEAR	PITON CLEAR
-	EN172	+	+	+	+	+	ESSE	+ NTIAL	+	+			
	EN172	+	+	+	+	+	ESSE	+ NTIAL	+	+			
-	EN172 ANSI 287.1	+	+ YELLOW	+ BRAVA2 CLEAR	+ BRAVA2 YELLOW	+ BRAVA2 LIGHT MIRROR	ESSE	+ NTIAL	+ KILIMANDJARO CLEAR	+ KILIMANDJARO CLEAR AB		PITON2 CLEAR	PITON CLEAR

— Goggles

	PREMIUM		EVOLUTION			ESSENTIAL	
	SAJAMA	GALERAS CLEAR	GALERAS SMOKE	TACANA SPORT	RUIZ1 ACETATE	RUIZ1	MURIA1
E N166				$\sim$			
	*4	*_	*	2.4	*/	*	*
ANSI Z87.	1	+	+				

All our polycarbonate glasses filter 99.9% of UV A, B or C (130 - 300 nm). Our UV400 glasses filter up to 400 nm.

#### LA EYEWEAR PROTECTION SAFETY GLASSES





# - EYEWEAR PROTECTION

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RIMFIRE POLARIZED	Polarized				<b>EN172</b> 5-3.1		ANSI 287.1	2 0 0 0 0 0 0 0	
RIMFIRE MIRROR	Mirror	Polycarbonate glasses. Sport design. Polycarbonate frame with matt finish for better comfort and durability.	CE	<b>EN166</b> 1 F / F	<b>EN172</b> 5-3.1	ANSI	Z87+ U6 L3	28 g	x 100
RIMFIRE CLEAR	Clear				<b>EN170</b> 2C-1.2	•	<b>ANSI 287.1</b> 287+ U6		• • • •

#### **RIMFIRE POLARIZED**







FlexGrip™ nasal bridge ●Optimised comfort ●Perfect fit for all body types



Polycarbonate frame with matte finish ➡Better comfort and reinforced strength





Without polarised lenses

Polarised glasses • Reduction of glare and reflections from reflective surfaces (road, water, snow...)









ASO2 SMOKE

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ASO2 CLEAR	Clear	Polycarbonate glasses. Sport design. Polycarbonate/ TPR bi-material flexible	EN166	<b>EN170</b> 2C-1.2	<b>ANSI 287.1</b> 287+ U6	00 ~	- - - - -
ASO2 SMOKE	Smoke	arms. Nose piece suitable for all body shapes.	1 FT K N / FT	<b>EN172</b> 5-2.5	ANSI 287.1 Z87+ U6 L2.5	28 g	x 100
GO-SPECS TEC CLEAR	Clear	Polycarbonate single lens glasses. Frame with TPE seal. Neoprene elastic strap with adjustable buckle. Tilting. Side protection.	<b>EN166</b> 1 FT / FT	<b>EN170</b> 2C-1.2	<b>ANSI 287.1</b> Z87+ U6 D3	45 g	





D-PAD technology →Optimised comfort →Perfect fit for all body types



Bi-material sports section light and comfortable Increased comfort Very good hold on the head (or on a helmet)





←Protects against solid or liquid projections



→Perfect fit to the shape of the face
 Neoprene strap
 →Resistance to chemical projections
 →Washable
 UV filtration A, B and C at 99.9% (130-380 nm)
 Reinforced impact resistance

#### - EYEWEAR PROTECTION SAFETY GLASSES



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PACAYA CLEAR LYVIZ			2 • •	EN170	- - - -	36 g	
PACAYA CLEAR Strap Lyviz	Clear	Polycarbonate single lens glasses. Integrated polycarbonate nose piece. Adjustable nylon	CE EN166 1FT/FT	<b>EN170</b> UV 2C-1.2	<b>ANSI Z87.1</b> Z87+	41 g	x 100
PACAYA SMOKE LYVIZ	Smoke	arms. Side protection.		<b>EN172</b> UV 5-3.1		36 g	









Removable foam protection Very good sealing in dusty environments Increased comfort in case of shock



Tilting arms →Perfect fit to the shape of the face



https://www.youtube.com/watch?v=-q64s0Ll914



#### The safety spectacles are always clean thanks to the LyViz™ treatment!



Coating Oleophobic Hydrophobic by Delta Plus



LyViz treatment : hydrophobic and oleophobic coating Clean eyes guaranteed for longer Reinforced anti-scratch treatment

## Helps workers see their task clearly to ensure their safety at work.



Highly oleophobic & hydrophobic the contact angle remains greater than 105°



More resistance to abrasion 20%> regular test



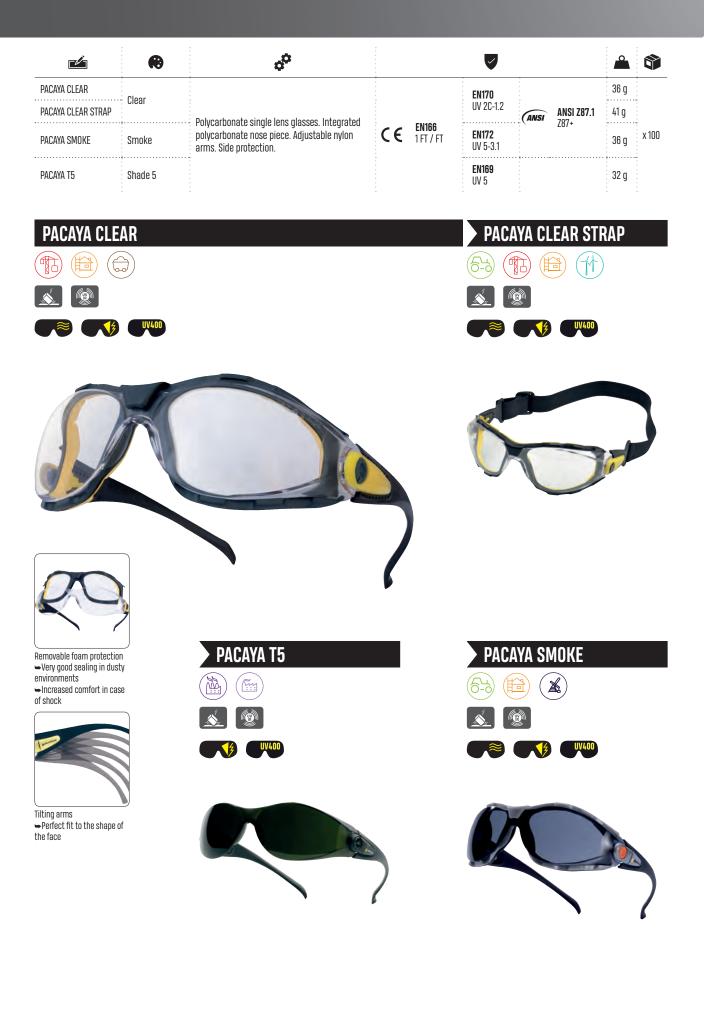
Ultra-low vapour effect less than 0.11% increase in fog after abrasion

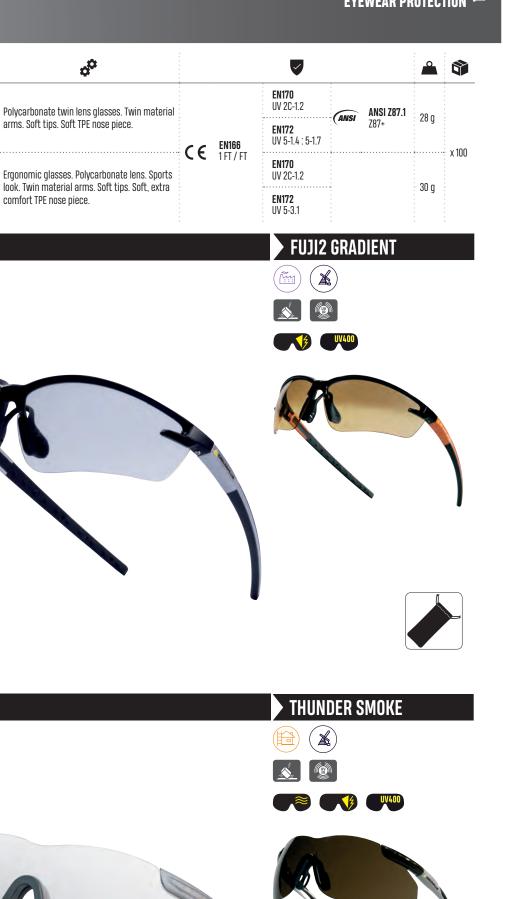


Dirty protective eyewear risks becoming unworn protective eyewear and thus expose the user to a risk. We have developed an innovative LyViz™ treatment that keeps the eyepiece cleaner longer and makes it easier to clean.

Marie Pourcher, Head Protection Product Expert

## - EYEWEAR PROTECTION







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Clear

Gradient

Clear

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Smoke

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FUJI2 CLEAR

FUJI2 GRADIENT

THUNDER CLEAR

THUNDER SMOKE

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**FUJI2 CLEAR** 

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Non-slip rubber sections ⇒Increased comfort →Very good hold on the head (or on a helmet)

Without mount in lower part ►No visual discomfort

Extra flexible TPE nose bridge ➡Optimised comfort ➡Perfect fit for all body types

**THUNDER CLEAR** 

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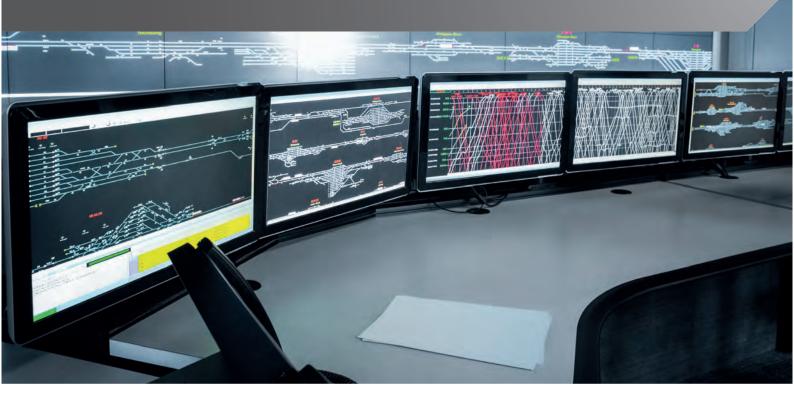
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Nasal bridge TPE soft extra comfort →Optimised comfort
 →Perfect fit for all body types

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#### - EVEWEAR PROTECTION SAFETY GLASSES



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HELIUM BLUE BLOCKER	Brown	Ultra light polycarbonate single lens glasses.	~	EN166	<b>EN170</b> 2C-1.4	ANSI	<b>ANSI 287.1</b> Z87+ U6 L1.5	45 -	
HELIUM DETECTABLE	Blue	Extra fine frame. Suitable for long duration wear.	CE	<b>EN166</b> 1 FT / FT	<b>EN170</b> UV 2C-1.2			15 g	x 100
HELIUM DET	ECTABLE				•	•			•



Metallically charged blue frame visually detectable by X-ray and magnetism Suitable for the food industry Blue tint with excellent transmission factor (80%)

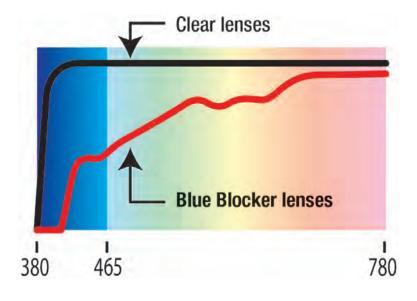
➡Comfortable for indoor use



#### Ideal for demanding workers who do not like to wear heavy and bulky PPE.



The blue-violet light (between 380 and 465 nm) present in the solar spectrum and emitted by screens or LEDs to which we are more and more exposed, generates harmful effects on the retina and the macula. The shade of these glasses is designed to filter 65% of the blue light while transmitting more than 65% of the visible light and is an excellent compromise for your protection and your eyes.

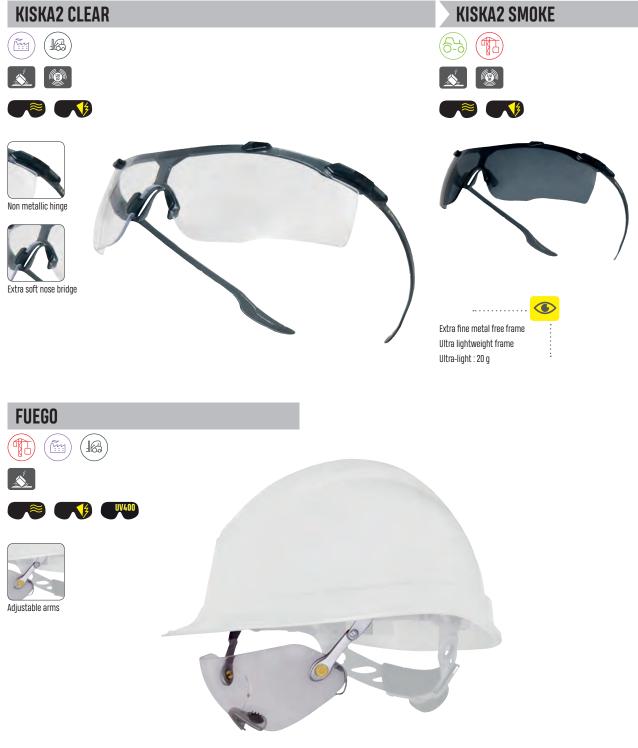


Lightness and ergonomics are two axes of product development that are used more and more by users. PPE must allow itself to be forgotten to be worn all day without any discomfort. The Helium with its enveloping design and weight of 15g can be forgotten. We chose to make it even more efficient with two innovative functions on the market: blue light filtration and detection.

Marie Pourcher, Head Protection Product Expert

# - EYEWEAR PROTECTION SAFETY GLASSES

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KISKA2 CLEAR	Clear	Ultra light one-piece polycarbonate glasses. Extra fine rimless frame and	-				<b>EN170</b> UV 2C-1.2		
KISKA2 SMOKE	Smoke	extra soft polycarbonate nose bridge. Suitable for long duration wear.			<b>EN172</b> UV 5-3.1	- 20 g	0 0 0 0 0 0 0 0 0		
FUEGO	Clear	Clear polycarbonate single lens glasses to use as an accessory for safety helmet. Wraparound design for maximum protection. Folding system in the helmet when it is not used, for intermittent use. Very convenient. Branches foldable for easy positioning in the helmet. Suitable for our range of safety helmet.	CE IFT	i <b>g</b> / Ft	<b>EN170</b> UV 2C-1.2	34 g	x 100		





#### - EYEWEAR PROTECTION SAFETY GLASSES

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EGON CLEAR	Clear			EN170			
EGON YELLOW	Yellow	Ergonomic glasses. Polycarbonate lens. Sport	0 0 0 0 0 0 0 0 0 0 0 0 0 0	UV 2C-1.2	ANSI 287.1	• • • •	0 0 0 0 0
EGON LIGHT MIRROR	Mirror	look. Twin material arms. Extra comfort soft TPE nose piece.	<b>C C</b> EN166	<b>EN170</b> UV 2C-1.7	<b>(ANSI</b> 287+	22 a	v 100
EGON SMOKE	Smoke		CC 1FT/FT	<b>EN172</b> UV 5-3.1		σzy	XIUU
HEKLA2 CLEAR	Clear	Single lens polycarbonate over glasses. Side shields. Integrated polycarbonate nose piece. Flexible polycarbonate arms. Suitable for all types of prescription glasses.		<b>EN170</b> UV 2C-1.2			



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MILO CLEAR	Clear	Single lens polycarbonate glasses. Integrated polycarbonate nose piece.		<b>EN170</b> UV 2.C-1.2	40	-
MILO SMOKE	Smoke	Polycarbonate arms. Metal free: dielectric. Ultra light: 18 g. Ultra flexible.	• • • •	<b>EN172</b> UV 5-3.1	· - 18 g	0 0 0 0 0 0 0
MEIA CLEAR	Clear		C E EN166 1 FT / FT	EN170		x 100
MEIA YELLOW	Yellow	Single lens polycarbonate glasses. Integrated polycarbonate nose piece. Polycarbonate arms. Non-slip PVC tips.	* * * *	UV 2.C-1.2	22 g	0 0 0 0 0 0
MEIA SMOKE	Smoke			<b>EN172</b> UV 5-3.1	• • • • • • • • • • • • • • • • • • •	0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
MILO CLE	AR		MILO SM	OKE		
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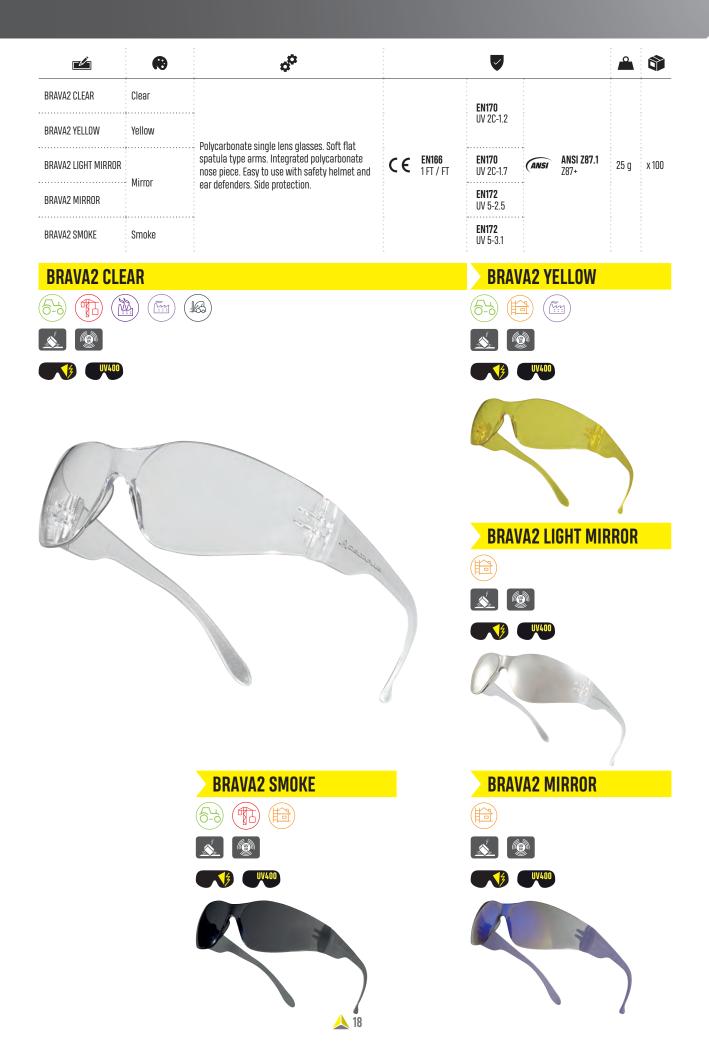








#### - EYEWEAR PROTECTION SAFETY GLASSES



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KILIMANDJARO CLEAR AB	Clear			EN170				
KILIMANDJARO CLEAR	UEdi	Polycarbonate single lens glasses. Adjustable nylon arms. Side protection.		UV 2C-1.2	ANSI	<b>ANSI 287.1</b> 287+	32 g	
KILIMANDJARO SMOKE	LIMANDJARO SMOKE Smoke		EN166	<b>EN172</b> UV 5-3.1				- - - - - - - - -
PITON 2 CLEAR	Clear	Polycarbonate single lens glasses. Modern and sport design. Side protection. Open arms for lateral ventilation. Hole in arms for neck cord.	CC EN166 1FT/FT	<b>EN170</b> UV 2C-1.2			30 g	x 100
PITON CLEAR		Clear polycarbonate single lens glasses. Direct side ventilation. Side protection. Hole in arms for neck cord.			ANSI	<b>ANSI 287.1</b> Z87+	44 g	<ul> <li>0</li> <li>0</li></ul>

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#### **KILIMANDJARO CLEAR AB**





#### KILIMANDJARO CLEAR







## - EYEWEAR PROTECTION SAFETY GOGGLES

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GALERAS CLEAR	Clear	Delucarbanata gagalaa, Indiract vantilation, Flovible DVC and	0 0 0 0 0	<b>EN166</b> 1 BT / 34 BT		2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
GALERAS SMOKE	Smoke	Polycarbonate goggles. Indirect ventilation. Flexible PVC and nylon frame. Panoramic screen. Adapted to wear with glasses and disposable respiratory half-masks. Wide elastic strap.	CE	<b>EN166</b> 1 BT / 34 BT <b>EN172</b> UV 5-3.1	<b>ANSI 287.1</b> 287+	104 g	x 60
FILM GOGGLE	Clear	Box of 10 sets of protective film to protect screens of goggles. Each set is made of 3 layers of films.				56 g	x 10

#### **GALERAS CLEAR**







⇒Very good support

**GALERAS SMOKE** 6-9 E **UV400** 



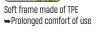
- Marking (EN166) 1 = the best optical class
- B = resistance to medium energy impacts
- T = impact resistance at extreme temperatures
- 3 = resistance to liquid splashes 4 = resistance to large dust particles



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SAJAMA		Clear polycarbonate goggles, indirect ventilation. TPE flexible frame for long-lasting comfort. Wide elastic strap.		<b>EN166</b> 1 BT / 3 BT	<b>ANSI 287.1</b> 287+	92 g	
RUIZ 1 ACETATE	Clear	Clear acetate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap. Resistant to chemical products splashes.	C€	<b>EN166</b> 1 FT / 3 FT		86 g	x 60
RUIZ 1	•	Clear polycarbonate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap.		<b>EN166</b> 1 B / 3 B	ANSI 287.1	0	0 1 2 3 4 4 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8
MURIA 1		Clear polycarbonate goggles. Flexible PVC frame. Direct ventilation. Textile elastic strap.		<b>EN166</b> 1 B / B	( <b>ANSI</b> 287	60 g	•• • • • •













#### - EYEWEAR PROTECTION **HELP WITH CHOICE**



#### — Welding



All our polycarbonate glasses filter 99.9% of UV A, B or C (130 - 300 nm). Our UV400 glasses filter up to 400 nm.

Welding	ММА	MIG	MAG	TIG	Torch	Plasma	Laser
Process		Electric arc + Electrode		Electric arc + Electrode Tunsten	Torch flame	Electric arc + Electrode	Laser ray
Gas supply	No	Inert protective gas (Argon or Helium)	Active protective gas (Argon/CO <sub>2</sub> or Argon/ Oxygen)	Neutral gas (Argon)	Fuel gas (acetylene, propane, butane or methane) * Combustion gas (oxygen - hydrogen or natural gas)	Argon (principal) + Hydrogen or Helium (annular)	No
	3,500°C to 7,000°C			3,500°C	3,150°C	15,000°C to 25,000°C	
Metal supply	Yes (melting electrode)		es al coil)	Yes (Filler metal rod)	Yes	No	No
Example of jobs using these process	Craftsmen, locksmiths, metal workers, coachbuilders		rmaking, metalwork / nd naval construction	Boilermaking, metalwork / ironworks	Plumbers, heating engineers, cold storage, locksmiths	Aeronautics, light and pharmaceutical Industry	Light and pharmaceutical Industry
Materials	Steel, stainless steel, cast iron, aluminum	Pure steel or weakly alloyed*	Stainless steel and copper alloy*	All type of metals (except light aluminum alloy*)	Copper, tin, brass, aluminum, zinc	Steels, stainless steel, aluminum and alloy*	Metals and plastics
Thickness	2 mm to 10 mm	t	mm o mm	0,3 mm to 6 mm	Less than 2 mm	Micro plasma : 0,01 to 1 mm Plasma : 1 to 3 mm Unblocking spray plasma: 3 mm to 8 mm	2 mm to 8 mm
Features	Economical and good quality welding	High speed, regular and ç	good quality welding bead	"Clean" welding, very high quality, slow process	Easy to settle, stand alone device. Easy to learn but average aspect.	Quality welding (fine and precise). Possibility of automatic process but rather slow. * Possibility to cut pieces	"Clean" and very high quality but expensive welding process + Cut of pieces in large series

An alloy is the combination of a metallic element with one or several other chemical elements by melting, with the aim of modifying the mechanical properties of the basic metal.

An and y is the committee of a meetine element with the or sev Examples of known alloys: - Cast iron: iron + carbon (between 2,1 and 6,7% in carbon mass) - Steel: iron + carbon (best kna 2,1% in carbon mass) - Brass: copper + zinc - Bronze: copper + tin

## - EYEWEAR PROTECTION

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BARRIER 2	Black-Grey	Helmet for electric arc welding with self-obscuring screen. Can be used for MIG, MAG, TIG and plasma welding requiring 9 to 13 shade protection. Can be used in shade 5 to 9 for low intensity or flame welding. Can be used for grinding in shade 4.	CE	EN166 1 B EN379 1/1/1/2 / 4/5-9/9-13 EN175 B	ANSI 287.1 287 W4/5-9/9-13	500 g	x 6
BARRIER PLATE 2	Clear	Pack of 5 exterior spare screens for BARRIER 2 helmet in polycarbonate.		<b>EN166</b> 1 B		38 g	x 100
BASWELD	Black	Bag of 10 sweat bands for BARRIER 2 and SCREEN welding shields.				5 g	x 20

#### **BARRIER 2**





High performance optical class Less visual fatigue



Replaceable exterior protection screen Easy replacement of damaged screens



Field of view 100 x 67 mm ➡Guaranteed maximum visual







Settings : sensitivity, hue selection, switching time - Guaranteed user comfort for all types of welding

Grinding/soldering mode →2 applications for a single product



4 independent sensors ➡Increased product reactivity in all positions and in confined spaces



BASWELD



# eyewear protection WELDING

	•	o <sup>c</sup>	• • • •	~	J		
SCREEN	Black	Helmet for electric arc welding with self-obscuring screen. Can be used for MIG, MAG, TIG and plasma welding requiring DIN9 to DIN13 shade protection.	CE	<b>EN166</b> 1 F <b>EN379</b> 1/1/1/2 / 4/9-13 <b>EN175</b> F	(ANSI 287.1 287 W4/9-13	474 g	хб
SCREEN PLATE	Clear	Pack of 5 exterior spare screens for SCREEN helmet in polycarbonate.	•	<b>EN166</b> 1 F		14 g	x 150
BASWELD	Black	Bag of 10 sweat bands for BARRIER 2 and SCREEN welding shields.	· · · · · · · · · · · · · · · · · · ·			5 g	x 20



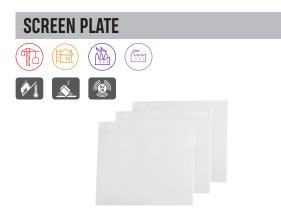


High performance optical class



External adjustment of the shade • One-handed adjustment with or without gloves





#### BASWELD



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CASOUD2HE	Black	Polypropylene welding face shield, to be used on safety helmets. For all types of welding that requires shade 11 protection. Sold ready to use: fixed screen equipped with one clear polycarbonate filter (FILTER-IN), flip-up screen equipped with one shade 11 filter (FILTER-IN), protected by one clear polycarbonate filter (FILTER-IN). Dimensions of the filters: 108 x 51 mm.	Adjustable	CE	<b>EN166</b> 1F / S <b>EN169</b> 11 <b>EN175</b> S	304 g	x 10
CASOUD 3	Black	Helmet for all types of welding that requires shade DIN11 protection. Headband. Sold ready to use: fixed screen equipped with one clear polycarbonate filter (FILTER-IN), flip- up screen equipped with one DIN11 filter (FILTER-IN), protected by one clear polycarbonate filter (FILTER-IN). Dimensions of the filters: 108 x 51 mm.	Adjustable	CE	<b>EN166</b> 1F / F <b>EN169</b> 11 <b>EN175</b> F	415 g	X 6
FILTER-IN	Clear	Pack of 5 clear polycarbonate filter, 108 x 51 mm. to be fitted on CASOUD3 welding helmet and CASOUD2HE welding shield. Thickness: 1,8 mm.		CE	<b>EN166</b> 1F / F	140 g	x 20
FILTER 11	Green	Pack of 5 shade 11 mineral filter, 108 x 51 mm. to be fitted on CASOUD3 welding helmet and CASOUD2HE welding shield. Thickness: 3 mm.		CE	<b>EN166</b> 1 <b>EN169</b> 11	240 g	x 20
TOBA 3 T5	Red	Welding goggles. Flip-up screen. Flexible PVC frame. Indirect ventilation. Elastic strap. Clear polycarbonate inside lens.         Shade 5 polycarbonate upper lens with clear polycarbonate reinforcement lens.         Image: Comparison of the strapping of the stra	Adjustable	CE	<b>EN166</b> 1FT / FT <b>EN169</b> 5 <b>EN175</b> FT	132 g	x 60
PACAYA T5	Shade 5	Polycarbonate single lens glasses. Integrated polycarbonate nose piece. Adjustable nylon arms. Side protection.		CE	EN166 1 FT / FT EN169 UV 5	32 g	x 100
LIPARI2 T5	Shade 5	Polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated TPE nose piece. Side protection.		CE (ANSI	EN166 1 FT / FT EN169 UV 5 ANSI 287.1 287+	34 g	x 100
• (				10 10 10 10 10 10 10 10 10 10 10 10 10 1			



— Visor



All our polycarbonate glasses filter 99.9% of UV A, B or C (130 - 300 nm). Our UV400 glasses filter up to 400 nm.



#### - EYEWEAR PROTECTION **SAFETY VISORS**



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VISOR TORIC CLEAR	Clear	Polycarbonate injected visor. Thickness 1,9/2,0 mm. Electric Arc protection.	EN166 1AT 89 EN170 UV 2C-1.2	100 -	
VISOR TORIC T5	Universal fixing. Suitable for faceshield holder VISOR HOLDER, VISOR-H, VISOR-U. 39 x 20 cm. ORIC T5 Green shade 5		EN166 1 AT 9 EN169 5	····· 162 g	x 20
VISOR T-GUARD	Clear	Polycarbonate chin protection to be fixed on VISOR TORIC visor.		46 g	0 9 9 9

#### **VISOR TORIC CLEAR**







Marking (EN166) 1 = the best optical class A = the highest impact resistance T = impact resistance at extreme temperatures 9 = resistance to the projection of molten metals

Marking (EN169) 5 = UV and IR resistance



Spherical visor ⇒Extra large field of vision

Injected polycarbonate ➡Maximum impact resistance

VISOR-TOPIC 10 1.16 1 AT 29 CT

#### Marking (EN166)

#### 1 = the best optical class

- A = the highest impact resistance T = impact resistance at extreme temperatures
- 8 = short-circuit electrical arc resistance 9 = resistance to the projection of molten metals
- Marking (EN170)

2C-1,2 = UV resistance



## - EYEWEAR PROTECTION SAFETY VISORS



	•	o <sup>0</sup>			
VISOR FLASH	Green	Polycarbonate injected visor, against electric arc and thermal risk. Green shade for better transmission of light.	CCE EN166 1FT 8 EN170 UV 2C-1.7 GS-ET 29 VISOR-U 8-2-1 VISOR-HOLDER 8-1-1 ASTM F 2178-12 14 cal/cm <sup>2</sup> ANSI 287.1 287+ U6 L1.7	230 g	x 25
<b>VISOR FLAS</b>	SH				
	働度				
	Ø UV400	Light green shade provides 55% visible light transmission Preserved colour perception Elevated perceived brightness			

Curved chin protector •No discomfort in the user's movements

	••		•	•			•	•	
									-

Injected polycarbonate •2 to 2.3 mm thick •Maximum resistance to impact and radiant heat

Protection : 14cal/ cm² (ASTM) →Maximum protection from electric arcs

UV filtration A, B and C at 99.9% (130-380 nm) ←Guaranteed protection from ultraviolet light



#### Protecting the face against the risk of electric arcs adapted to DELTA PLUS safety helmets (except Granite range)

#### What is an Arc Flash ?

It is a short circuit that bursts from a live conductor exposed to another or to the ground, resulting in a large electrical discharge driven by the ambient air. The phenomenon ionises the air, which becomes almost as conductive as metal. This sudden and massive energy release is like an explosion, generating temperatures that can reach 20,000°C locally. That is 4 times hotter than the surface of the sun. This immense energy can melt and vaporise metals and other materials almost instantly. blowing them with hot gases in the immediate vicinity, destroying the electrical equipment involved and causing injuries to people working nearby.

#### Who may be exposed ?

Industrial electricians and technicians in distribution or electrical maintenance.

#### What are the effects ?

Rapid release of energy and heat : a fireball exploding toward the outside that can cause irreversible burns. Blinding light.

Shockwave : a blast that strikes violently in a frontal way. Sound wave : hearing disorders and acoustic trauma. Sudden spraying of molten metals and incandescent shrapnel in all directions.

#### What causes a Arc Flash ?

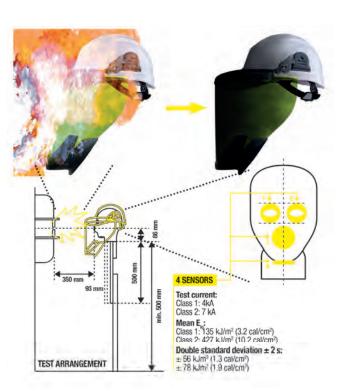
Usually limited to electrical systems larger than 480 volts, an Arc Flash may be caused by improper handling or by components such as switches, terminating conductors, fuses, circuit breakers, relay contacts, bus-bars or other defective components. Particularly due to poor maintenance, humidity, dust and corrosion for example. Where to start ? It is important to systematically conduct a risk analysis of the equipment and the workstation before any operation ! This analysis must be carried out by a qualified person and makes it possible to evaluate the level of risk and the equipment necessary for the intervention, in particular the choice of Personal Protective Equipment.





The visors on the market were very cumbersome with imposing chin protectors that bothered workers. The VISOR FLASH has been designed for ease of use. An essential point was the mobility of the user during his tasks. The chin protector has been modified three times until we got the best combination of protection and freedom of movement of the head. The curved design at the bottom of the chin guard helps deflect the arc explosion and rests comfortably on the torso during work. In addition, we have retained excellent lateral protection while reducing the overall weight of the visor. Simultaneously with VISOR FLASH, we created the VISOR-U Visor Holder, moving the pivot point further back on the worker's safety helmet. This lightweight combination makes VISOR FLASH more acceptable and makes it easier to use in an already challenging work environment.

Rick Rustello, Arc Flash Specialist



## - EYEWEAR PROTECTION SAFETY VISORS

	•	o <sup>©</sup>	0 0 0 0 0		Â	Î
VISORPC	Clear	Pack of 2 clear polycarbonate visors with plastic edge. Universal fixing. Suitable for BALBI2, PICO2, VISOR-H and VISOR HOLDER faceshield holder. 39 x 20 cm.	0 6 6 6 6	<b>EN166</b> 1BT	100 ~	- - - - -
VISORG	Black	Pack of 2 gauze visors with plastic edge. Universal fixing. Suitable for BALBI2, PICO2, VISOR-H and VISOR HOLDER faceshield holder. 39 x 20 cm.		<b>EN1731</b> F	···· IUU g	
VISORPC MINI	Clear	Pack of 2 clear polycarbonate visors with plastic edge. Universal fixing. Suitable for VISOR-HOLD MINI. 36 x 17 cm.	CE	<b>EN166</b> 1BT	84 g	x 20
VISORG MINI	Black	Pack of 2 gauze visors with plastic edge. Universal fixing. Suitable for VISOR-HOLD MINI. 36 x 17 cm.	• • •	<b>EN1731</b> S	94 g	•

VISORPC









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		a <sup>©</sup>	6 6 6 6 7 6	$\checkmark$		
BALBI 2	Yellow	Faceshield with front protection + VISORPC visor: clear polycarbonate visor with plastic edge. 39 x 20 cm.		<b>EN166</b> 1BT / 3BT	260 g	v 20
PICO 2	Yellow-Black	Faceshield with front protection + VISORG visor: gauze visor with plastic edge. 39 x 20 cm.	••• • • • • • • • • •	<b>en1731</b> F / F	262 g	x 20
VISOR-H	Grey	Faceshield with front protection. Innovative adjustable ROTOR system: head sizes 53 to 63 cm.		EN166 EN1731	180 g	x 25
VISOR-U		Dielectric faceshield holder suitable for safety helmets and visors.	CE	EN166		x 100
VISOR HOLDER	Black	Faceshield holder suitable for ZIRCON, QUARTZ and BASEBALL DIAMOND safety helmets. To combine with VISORPC, VISORG, VISOR-TORIC and VISOR FLASH visors, universal fixing.	<ul> <li>a)</li> <li>b)</li> <li>b</li></ul>	EN1731 GS-ET 29	86 g	x 20
VISOR-HOLD MINI		Faceshield holder suitable for GRANITE WIND and GRANITE PEAK safety helmets. To combine with VISORPCMINI and VISORGMINI.	en e e e e e e e e e e e e e e e e e e	EN166 EN1731	74 g	

#### BALBI 2





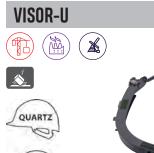
PICO 2





VISOR-H





ZIRCON

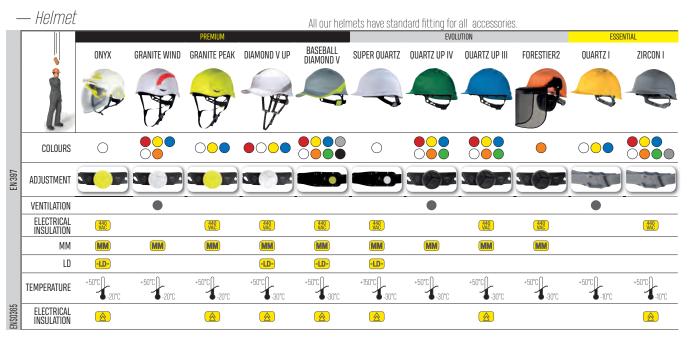
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## SKULL PROTECTION HELP WITH CHOICE

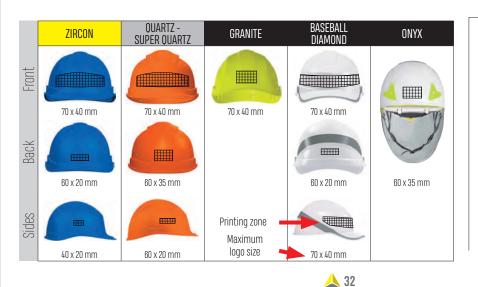


– Bump cap



#### Customize your safety helmets!

- The logo sent must be in vectorized format (.eps, .ai, or .pdf) and must not have a different colour background to the chosen helmet.
- ← For logos in colours, please indicate the pantone reference for each colour.
- Warning: the colours of the logos can be slighty changed according to the colour of helmets. To have the same colour as your logo, we recommend that you choose white helmets.
- → It is impossible to do gradient colours in pad printing.
- ← Minimum of order: 40 pieces per colour for all orders in Europe.
- → Maximum number of colours: 4
- $\blacktriangleright$  The space to put the logo may not exceed dimensions shown on the table below:



#### BADGEH

Badge holder for BASEBALL DIAMOND and BASEBALL DIAMOND UP

 Minimum of order: 20 pieces per colour for all orders in Europe



YOURLOGO

#### $\vdash$ SKULL PROTECTION **SAFETY HELMETS**

	R	o <sup>c</sup>	<b>V</b>		Ŷ
GRANITE WIND	White Blue Yellow Orange Red	Ventilated ABS safety helmet. Mountain helmet style: without visor for the best vertical vision. Less encumbrance. Light. Polyamide cradle: 3 textile bands with 8 fixing points. Thermoformed sweat band. Innovative adjustable ROTOR system : head sizes 53 to 63 cm. Sold with 3 point chin strap.	<b>EN397</b> MM -20°C +50°C	368 g	
GRANITE PEAK	White Blue Yellow	ABS safety helmet. Mountain helmet style: without visor for the best vertical vision. Less encumbrance. Light. Polyamide cradle: 3 textile bands with 8 fixing points. Thermoformed sweat band. Innovative adjustable ROTOR system : head sizes 53 to 63 cm. Sold with 3 point chin strap. Specially designed for working at height. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C.	С Є <u>EN397</u> ММ -20°С +50°С 440VAC <u>EN50365</u> CLASS 0	350 g	x 10
BASGAMMA	Disala	Bag of 5 thermoformed sweat bands. Suitable for QUARTZ UP, SUPER QUARTZ, BASEBALL DIAMOND and GRANITE safety helmets.		4 g	
JUGGAMMA	···· Black	Bag of 5 chin straps with 3 fixing points. Safety-breaking system. Suitable for GRANITE PEAK and GRANITE WIND safety helmets.		19 g	x 20

#### **GRANITE WIND**





Fins system →Optimised ventilation with increased protection from projections



One-D Rotor ergonomic clamping system →One-handed adjustment with or without gloves



Chin Strap 3 removable attachment points Optimal support of the helmet
 High comfort











**GRANITE PEAK** 

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⇒Increased comfort ⇒Good absorption of perspiration



Polyamide cradle : 3 fabric bands with 8 attachment points ⇒Comfort of use guaranteed



Design without visor For work at height with an optimal field of vision

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#### JUGGAMMA















Polyamide cap : 3 textile headbands with 6 attachment points and adjustable headband in high or low position Better weight distribution in the case of shock and guaranteed user comfort

Integrated visor —Compact and combined solution







**DYNAMIC JUGBETA** 

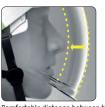


#### A modern design inspired by the world of sport offering dual protection for harsh work environments and electric hazards at a price accessible to all users.

	•	o <sup>o</sup>	0 0 1 0 0 0			Û
ONYX	White	ABS dual shell safety helmet with PC retractable visor. Sport and dynamic design. 3 textile straps with 6 fixing points. Foam sweat band. One-D Rotor clamping system: head size 53 to 63 cm. 2 possible positions of the headband (top/low) for a better comfort. Retro-reflective stickers. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C, protection against arc fault Class 1 (GS-ET 29). Visor with anti-Fog N and anti-scratch K treatments and protection against electrical arcs, and molten metals or hot liquids projections.	CE	EN397 LD MM -20°C +50°C 440VAC EN50365 CLASS 0	EN166 1 AT 8 9 KN / 3 8 9 AT En170 2C-1.2 GS-ET 29 8-1-0	x 6
HARNESS O	Black	Bag of 6 spare harnesses for ONYX safety helmet. Textile lining, foam sweat band, adjustement with One-D Rotor knob system.	•         •			x 10
VISONYXPR	Clear	Spare polycarbonate injected visor for double-shell ONYX helmet.	CE	<b>EN166</b> 1 At 8 9 kn / 3 8 9 At <b>EN170</b> 2C-1.2	<b>GS-ET 29</b> 8-1-0	x 20
DYNAMIC JUGBETA	Black	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for ONYX safety helmet.				



Balanced centre of gravity For a prolonged use Reduction of musculoskeletal disorders (MSDs)



Comfortable distance between the visor and the user's face → Good ventilation, prevents fogging → Compatible with glasses



Easy locking of the visor in two positions • Optimum safety : The visor does not rise or fall unexpectedly



Optimised visor grip area Guaranteed use and manoeuvrability with or without gloves



Lateral reflectivity For more visible workers



One-D Rotor ergonomic clamping system →One-handed adjustment with or without gloves

EUROPEAN STANDARD : EN166 - 8 GS-ET 29 Class 1 : 4 kA - 155 kJ.m<sup>2</sup> (3.7 cal.cm<sup>2</sup>)



ABS double shell Improved robustness, resistance to lateral deformation: increased protection



Replaceable visor Easy replacement of damaged visors



Clips to hold a headlamp Designed to attach a headlamp with an elastic headband



Microfibre storage bag Easy storage for a longer product life



The challenge in the development of ONYX was to obtain a compact and easy to use product while keeping a comfortable distance between the face and the visor in low position. We managed this with an average of over 2 cm between the user's nose and the visor. The simplicity of use is at the meeting: no spring or complicated locking system for the kinematics of the visor.

Marie Pourcher, Head Protection Product Expert

#### - SKULL PROTECTION SAFETY HELMETS



#### **BASEBALL DIAMOND V**





Button tightening Easy adjustment with a simple push BASEBALL DIAMOND V



Neon colours and silver band To be better seen at your workstation BASEBALL DIAMOND V BASEBALL DIAMOND V UP



Very curved visor → Best field of view at height BASEBALL DIAMOND V BASEBALL DIAMOND V UP



Also certified for wearing backwards down Maximum field of vision without visor BASEBALL DIAMOND V BASEBALL DIAMOND V UP









#### HARNESS V



## BASEBALL DIAMOND V UP





One-D Rotor ergonomic clamping system •One-handed adjustment with or without gloves BASEBALL DIAMOND V UP



Retro-reflective tapes ➡To be better seen at your workstation



Polyamide cradle : 3 fabric bands with 8 attachment points ⊷Comfort of use guaranteed







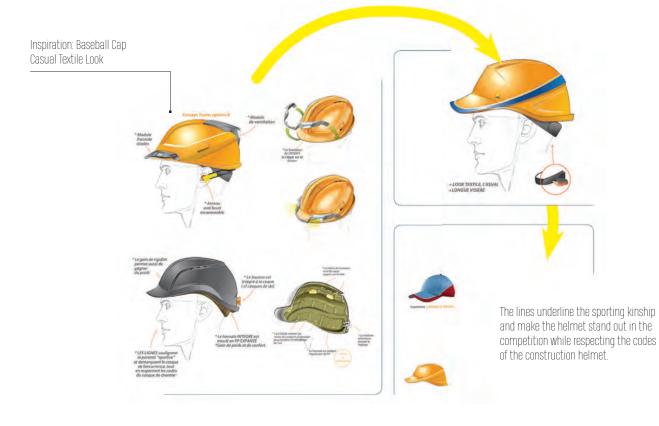




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#### The Iconic helmet in construction and industry with its unique design.

	R	¢ <sup>a</sup>				
BASEBALL DIAMOND V	White Blue Grey-Yellow Yellow Black Orange Red Green	ABS safety helmet. Innovative "baseball cap" shape to improve vision when looking up. Also tested for front back wearing, to reduce encumbrance. Polyamide cradle: 3 textile straps with 8 fixing points. Foam sweat band. Innovative button adjustment "colour to colour" for head size 53 to 63 cm. 2 possible positions of the headband (top/low) for a better comfort. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C.	CE	<b>EN397</b> MM LD -30°C +50°C	375 g	x 20
BASEBALL DIAMOND V UP	White Blue Yellow Orange Red Green	ABS safety helmet with innovative design. Tested in "reverse" position. Polyamide cradle: 3 fabric bands with 8 attachment points. Foam sweat band. Rotor clamping system : head size 53 to 63 cm. 2 possible positions around the head (high/low) for better comfort. Retro-reflective band. Electrical insulation 1000 VAC/1500 VDC. Sold with 4 points chinstrap.		440 VAC EN50365 CLASS 0	400 g	
HARNESS V	Black	Bag of 10 spare harnesses for BASEBALL DIAMOND safety helmet. Textile lining, foam sweat band, adjustment with button.			7 g	x 10





Users are sometimes bothered by the very classic look of the market's safety helmets. In 2009, we jostled an overly uniform market by launching our PREMIUM helmet : the BASEBALL DIAMOND with a shape inspired by baseball caps. To date, we remain the only players on the market to offer a headset with a contrast colour and a particular look while ensuring a maximum level of protection.

Marie Pourcher, Head Protection Product Expert

# - SKULL PROTECTION SAFETY HELMETS

	R	o <sup>o</sup>	<b>V</b>		Û
QUARTZ UP IV	White Blue Yellow	Ventilated UV-resistant high density polypropylene (PP) safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative adjustable ROTOR system: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort.	<b>EN397</b> MM -30°C +50°C	350 g	
QUARTZ UP III	Orange Red Green	UV-resistant high density polypropylene (PP) safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative adjustable ROTOR system: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C.	EN397 MM -30°C +50°C 440VAC EN50365 CLASS 0	354 g	x 40

#### QUARTZ UP IV



#### QUARTZ UP III





Adjustable ventilation • Optimised ventilation QUARTZ UP IV



One-D Rotor ergonomic clamping system ➡One-handed adjustment with or without gloves













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FORESTIER 3	Orange	Forester's type helmet consisting of: ZIRCON safety helmet: UV- resistant high density polyethylene (HDPE) or polypropylene (PP). Sweat band. Low density (LDPE) polyethylene cradle with 8 fixing points. SUZUKA2 ear defenders. VISOR HOLDER faceshield holder. VISORG gauze visor. Cardboard packaging.	LNDUZED	24 dB M 21 L 14 810 g	x 12
SUPER QUARTZ	White	ABS-PC safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative button adjustment "colour to colour" for head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C.	EN397 MM EN5 LD -30°C +150°C CLAS 440VAC	· · · · · · · · · · · · · · · · · · ·	x 40



#### **SUPER QUARTZ**





Button tightening Easy adjustment with a simple push





Tested on impact and penetration at extreme temperatures + 150°C/-30°C ➡Especially for the steel industry trades

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## L. SKULL PROTECTION SAFETY HELMETS

QUARTZ I	<b>R</b> White Blue Yellow	Ventilated UV-resistant high density polypropylene (PP) safety helmet. Polyethylene cradle: 8 fixing points. Sweat band. Manual adjustment: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Helmet with adjustable ventilation.	CE	<b>EN397</b> -10°C +50°C	<b>▲</b> 322 g	<b>x</b> 40
ZIRCON 1	White Blue Grey Yellow Orange Red Green	63 To Constant high density polyethylene (HDPE) or polypropylene (PP) safety helmet. Low density (LDPE) polyethylene cradle with 8 fixing points. Sweat band. Manual adjustment: head sizes 53/63 cm. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C. Standard holes for accessories. Anchorage for chin straps with 2 or 4 points.	C€	<b>EN397</b> -10°C +50°C 440VAC <b>EN50365</b> CLASS 0	330 g	x 40
		The second se				
WINTER CAP	Black	Lining placed inside the helmet. Accessory for extreme cold protection, easy to remove. User instructions included. Suitable for our range of helmets. This is not PPE.			125 g	x 40
FUEGO	Clear	Clear polycarbonate single lens glasses to use as an accessory for safety helmet. Wraparound design for maximum protection. Folding system in the helmet when it is not used, for intermittent use. Very convenient. Branches foldable for easy positioning in the helmet. Suitable for our range of safety helmet.	CE	EN166 1 FT / FT EN170 UV 2C-1.2	34 g	x 100
					6 6 7 8 8 8	

#### ${}^{ imes}$ skull protection **HELMETS ACCESSORIES - MARKING**

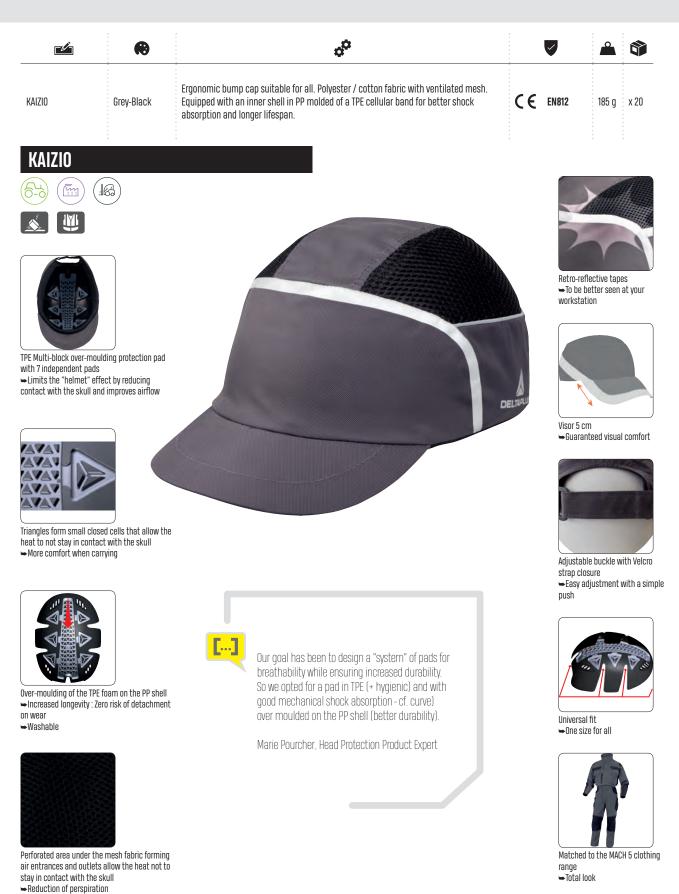
		o <sup>¢</sup>	tillis.	Ŵ
JUGGAMMA	Black	Bag of 5 chin straps with 3 fixing points. Safety-breaking system. Suitable for GRANITE PEAK and GRANITE WIND safety helmets.	Adjustable	x 20
BASGAMMA	Black	Bag of 5 thermoformed sweat bands. Suitable for QUARTZ UP, SUPER QUARTZ, BASEBALL DIAMOND and GRANITE safety helmets.		x 20
DYNAMIC JUGBETA	Black	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for ONYX safety helmet.	Adjustable	x 20
DYNAMIC JUGALPHA	Black	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	Adjustable	x 20
MENTALPHA	Black	Bag of 10 elastic chin straps with chin protector. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	Adjustable	x 20
JUGALPHA	Black	Bag of 10 chin straps. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	Adjustable	x 20
BASALPHA	Black	Bag of 10 foam sweat bands. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ, BASEBALL DIAMOND and GRANITE safety helmets and for BALBI2, PICO2 and VISOR-H faceshields.		x 20
NECKALPHA	Fluorescent orange	Bag of 2 neck protections adaptable on ZIRCON, QUARTZ, BASEBALL DIAMOND, GRANITE and ONYX safety helmets. High-visibility. Protects from the Sun's radiations and from dust.	Adjustable	-
HESTICKER	Metal grey Red	Bag of stickers for DELTA PLUS safety helmets.	One size	x 240

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#### A new generation protection cap: The protective shell and the absorbent foam are one!



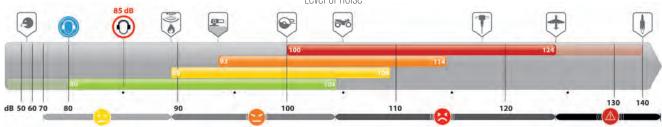




# HEARING PROTECTION

#### - EAR DEFENDERS AND EARPLUGS







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Attenuation values for noise



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			$\bigcirc$	M	<b>O</b>	$\langle \rangle$		6		$\bigcirc$	$\bigcirc$	
		CONICSOF	CONICAP	CONICFIRDE	CONICFIR	CONICMOVE	CONICFIT	CONICPLUS	CONICCOPLUS	CONICDE	CONICCO	CONIC
	100 - 124 dB									36 dB	36 dB	36 dB
	93 - 114 dB						32 dB	35 dB	35 dB			
	89 - 109 dB	26 dB	28 dB	28 dB	29 dB	29 dB						
	80 - 104 dB											
		H 25 M 23 L 22	H 29 M 24 L 22	H 27 M 25 L 23	H 29 M 27 L 24	H 31 M 25 L 23	H 32 M 29 L 28	H 35 M 33 L 30	H 35 M 33 L 30	H 34 M 34 L 31	H34 M 34 L 31	H34 M 34 L 31
		Silicone	PU	TPR	TPR	PU	Silicone	PU	PU	PU	PU	PU
C€ EN352		8-10 mm	8-18 mm	7 - 11 mm	7-11 mm	12-17 mm	8-12 mm	6-15 mm	6-15 mm	7-12 mm	7-12 mm	7-12 mm
Ŭ		Textile	Foldable headband	Textile	Textile	Ergonomic headband	Textile	-	Plastic	Plastic	Plastic	-
		Reusable	Reusable	Reusable Detectable	Reusable	Reusable	Reusable	Disposable	Disposable	Disposable Detectable	Disposable	Disposable
	Packaging				x10 Q-	<b>X</b>		x 200	× 200		× 200	x10 x200 x500

## L. HEARING PROTECTION EAR DEFENDERS

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EZ-COM	Black-Grey	Bluetooth 3.0 hands-free kit. Adaptable for safety helmets and ear defenders. "EZ to EZ" peering for simultaneous conversation. Autonomy in use: 10 h. Mounting bracket for safety helmet and ear defender included. USB charging cable included.	2014/53/UE	7	1 g	x 10
PIT-RADIO 3	Black-Red	Electronic ear defender, equipped with a radio system. Allows you to listen to the radio in the FM band (87-108 MHz), while protecting hearing, in an efficient and enjoyable way. Requires 2 AA batteries not included.	EN352-1 SNR 27 dB H 31 M 24 L 16 S/M/L EN352-6 EN352-8	ANSI S3.19 NRR 22 db 3	88 g	x 20
EZ-COM <b>EZ-COM</b> () () () () () () () () () ()	Safely and easily	communicate handsfree at work.	2 users - Intracom System : Autonomous communication system - Conversation with 2 in full duplex	Reduction of amb by DSP Keeps an audib in any type of env	le conv	versation
ttachment kit on ea •Communicates wh emaining protected armful noises	nile		العلى         العلى         العلى         العلى         العلى         العلى         Bluetooth         Compatible with all Bluetooth         communicating systems	Resistance to wat Use in aggressive environments	er and ve	dust
ttachment kit on a elmet •Communicates wh emaining protected	nile		With Lithium battery USB cable included Battery rechargeable in 2 hours	Autonomy : 10 am communication • Over a day of au work		IOUS
PIT-RADI	03	NOISE         SHR           0)         60-154.00         20-24.00           0)         97-159.00         21-29.00           0)         57-114.40         58-35.40           0)         57-114.40         58-35.40           0)         57-114.40         58-35.40           0)         57-114.40         58-35.40				
Deparates with AA bat Not included	ttery					
AUX-IN jack MP3 connection						

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## - HEARING PROTECTION EAR DEFENDERS

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INTERLAGOS	Grey Fluorescent yellow	Ear defenders with ABS cups. Pads filled with synthetic foam. Double plastic headband (POM), adjustable in height, with soft reinforcement for a better comfort.	~ ~	<b>EN352-1</b> SNR 30 dB H 30 M 28 L 20 S/M/L	(ANSI S3.19 NRR 28 dB	290 g	
YAS MARINA	Grey-Orange	Foldable ear defenders with ABS cups. Pads filled with synthetic foam. Double plastic headband (POM), adjustable in height, with foam reinforcement for a better comfort.	CE	<b>EN352-1</b> SNR 30 dB H 33 M 29 L 19 S/M/L		299 g	x 20
INTERHYKIT		5 Hygiene Kits (cushions + foam inserts) for INTERLAGOS, YAS-MARINA, SILVERSTONE2 and SEPANG2 earmuffs.				175 g	x 5

#### **INTERLAGOS**





Double headband ightarrow Greater flexibility and comfort



Ear defender holder tool included on the belt →Hearing protection always at your fingertips





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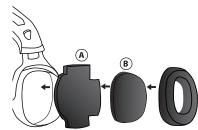




your workstation

Colour identification ⇒Indicates the level of protection

#### **INTERHYKIT**









Ear defender holder tool included on the belt ➡Hearing protection always at your fingertips



**YAS MARINA** 



Double headband ⇒Greater flexibility and comfort







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SILVERSTONE 2	Fluorescent yellow	Ear defenders for wearing around the neck. Metal arch and ABS cups, padded with synthetic foam.	EN352-1	270 g	x 20
SEPANG 2	Orange	Ear defenders with ABS and synthetic foam cups. Polycarbonate headband, adjustable in height, padded and flexible.	C C SNR 26 dB H 30 M 24 L 15 S/M/L ANSI S3.19 NRR 21 dB	208 g	x 50
SILVERST		NOISE         SNR           0)         00-104 at         20-34 at           0)         00-104 at         25-30 at           0)         00-154 at         40-35 at           0)         00-154 at         40-35 at	Without headband Seasy to wear with all so helmets and caps	🥌	>





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### - HEARING PROTECTION EAR DEFENDERS

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MAGNY-COURS 2	Black	Ear defenders with ABS cups. Pads filled with synthetic foam. Metallic headgear: external in textile/internal in EVA/PVC material, adjustable in height, very comfortable. High performance level.	EN352-1 SNR 33 dB H 34 M 32 L 25 S/M/L	<b>ANSI S3.19</b> NRR 26 dB		
MAGNY HELMET 2		Ear defenders for safety helmets. Adjustable in height. Metallic arms and ABS cups padded with synthetic foam. Can be used on their own or with VISOR HOLDER faceshield holder. Suitable for ZIRCON, QUARTZ, GRANITE and BASEBALL DIAMOND safety helmets.	EN352-3 SNR 30 dB H 32 M 28 L 22 S/M/L	<b>ANSI S3.19</b> NRR 25 dB		x 20
SPA 3	Blue-Black	Ear defenders with polystyrene (PS) and synthetic foam cups. ABS headband, adjustable in height. Low pressure pads.	<b>EN352-1</b> SNR 23 dB H 24 M 20 L 13 S/M/L		154 g	x 50
SUZUKA 2	Fluorescent yellow Black	Ear defenders for safety helmets. Adjustable in height. High flexibility ABS arms and cups. Cups padded with synthetic foam. Can be used on their own or with «VISOR HOLDER» faceshield holder. Suitable for GRANITE, SUPER QUARTZ, QUARTZ, ZIRCON and BASEBALL DIAMOND safety helmets.	EN352-3 SNR 24 dB H 27 M 21 L 14 S/M/L	<b>ANSI S3.19</b> NRR 21 dB	254 g	x 20





# MAGNY HELMET 2 Image: A state of the state



### - HEARING PROTECTION **REUSABLE EARPLUGS**

		o <sup>C</sup>		<b>V</b>			
CONICFIR050		Box of 50 pairs of reusable TPR earplugs with fabric cord.		EN352-2	•		x 20
CONICFIR010	Yellow	Bag of 10 pairs of reusable thermoplastic (TPR) earplugs with textile cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).		EN302-2 SNR 29 dB H 29 M 27 L 24 Ø 7-11 mm	ANSI	ANSI S3.19 NRR 25 dB	
CONICFIRDE010	Blue-Yellow	Bag of 10 pairs of detectable and reusable TPR earplugs with textile cord. Metal insert, suitable for food industry. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).	C€	<b>EN352-2</b> SNR 28 dB H 27 M 25 L 23 Ø 7-11 mm	•• • • • • • • • • • • • • • • • • • •		v 100
CONICFIT010	Orange	Bag of 10 pairs of reusable silicone earplugs with nylon cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).		<b>EN352-2</b> SNR 32 dB H 32 M 29 L 28 Ø 8-12 mm	ANSI	<b>ANSI S3.19</b> NRR 26 dB	x 100
CONICSOF010	Yellow	Bag of 10 pairs of reusable silicone earplugs with textile cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).		<b>EN352-2</b> SNR 26 dB H 25 M 23 L 22 Ø 8-10 mm	(ANSI	<b>ANSI S3.19</b> NRR 22 dB	

CONICFIR050



#### CONICFIRO10 Ϩ









contact with the ear canal →Optimised sealing and noise attenuation

## х1 **CONICSOF010**

**CONICFIT010** 

ñy

SNR®

SNR 26 dB



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Silicone free product

attenuation



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## L. HEARING PROTECTION DISPOSABLE EARPLUGS

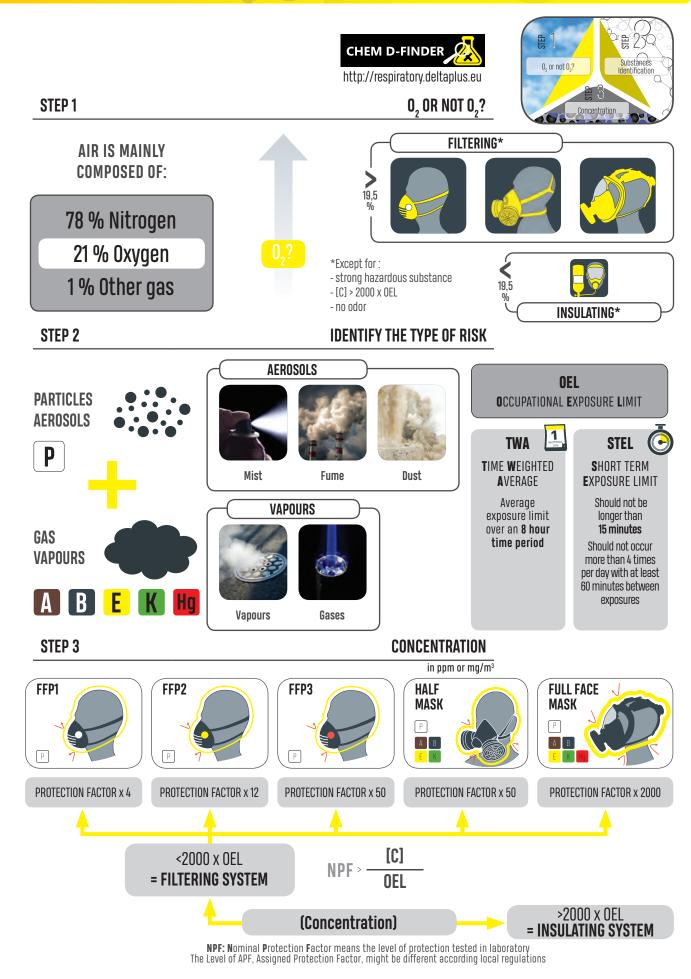
		¢ <sup>0</sup>	~	Û
CONICMOVE01	Blue-Yellow	PU earplugs with headband in polypropylene which can be worn under the chin. Ideal for intermittent or occasional wear. Very stable ergonomic headband • Very good performance in use Very comfortable round plugs • Extended use	C C EN352-2 SNR 29 dB H 31 M 25 L 23 0 12-17 mm ANSI S3.19 NRR 23 dB	x 100
CONICMOVEO1BR	Yellow	Bag of 10 pairs of spare earplugs for CONICMOVEO1.		x 200
CONICAPO1	Blue-Yellow	PU earplugs with headband in polypropylene which can be worn under the chin. Ideal for intermittent or occasional wear. Individual pack.	<b>C C EN352-2</b> SNR 28 dB H 29 M 24 L 22 0 8-18 mm <b>ANSI S3.19</b> NRR 21 dB	x 200
CONICAPO1BR	Yellow	Bag of 10 pairs of spare earplugs for CONICAP01.		x 200
CONICPLUS200	Fluorescent orange	Dispenser box of 200 pairs HV disposable PU earplugs. Ergonomic design for more comfort with DELTA EASYFIT integrated system for easier insertion in the ear canal. Individual plastic bag of 2 earplugs.	C C EN352-2 SNR 35 dB H 35 M 33 L 30 0 6-15 mm ANSI S3.19 NRR 32 dB	x 5
		Ergonomic shape       Orange colour         Optimal placement in the auditory canal       Indicates the level of protection in the workplace         Image: Colour protection in the workplace       Sing 35 dB		
CONICCOPLUS200	Fluorescent orange	Dispenser box of 200 pairs HV disposable PU earplugs with plastic cord. Ergonomic design for more comfort. Individual plastic bag of 2 earplugs.	C C EN352-2 SNR 35 dB H 35 M 33 L 30 O 6-15 mm ANSI S3.19 NRR 32 dB	x 5
		→ Optimal placement in the auditory canal → Indicates the level of protection in the workplace		
		<u>4</u> 50		

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CONICDE010	Blue	Bag of 10 pairs of detectable polyurethane earplugs with plastic cord. Metal insert, suitable for food industry. (9 pairs in bag + 1 pair in storage plastic box).	(ANSI	EN352-2 SNR 36 dB H 34 M 34 L 31 0 7-12 mm ANSI S3.19 NRR 33 dB	x 100
x1		SNR 36 dB			*
CONICCO200	Red	Dispenser box of 200 pairs disposable polyurethane earplugs with plastic cord. Individual plastic bag of 2 earplugs.	C E	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm ANSI S3.19 NRR 33 dB	x 5
CONICO10	Red	Bag of 10 pairs of disposable polyurethane earplugs. Individual plastic bag of 2 earplugs.	C E	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm ANSI S3.19 NRR 33 dB	x 200
CONIC200	Red	Dispenser box of 200 pairs disposable polyurethane earplugs. Individual plastic bag of 2 earplugs.	C E	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm ANSI S3.19 NRR 33 dB	x 5
CONIC500	Red	Box of 500 pairs disposable polyurethane earplugs. Refill unit for CONICDISPLAY.	C E	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm ANSI S3.19 NRR 33 dB	x 5
CONIC DISPLAY	Grey	Dispenser for earplugs including a refill of 500 pairs of CONIC500 earplugs. CONIC500 refill Attachment system included →Attaches to the wall or sits	C E	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm ANSI S3.19 NRR 33 dB	x4
DEAR BOX		Display box for DELTA PLUS earplugs range.			x 40

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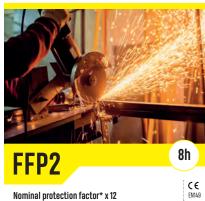
RESPIRATORY PROTECTION



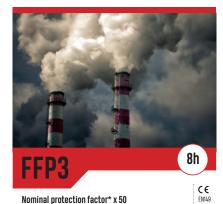
#### **DISPOSABLE RESPIRATORY PROTECTION**



**C€** EN149 Nominal protection factor\* x 4 Cement dust, flour, calcium carbonate, (chalk), graphite, cotton, concrete...\*\*



Nominal protection factor\* x 12 Untreated softwood, grinding, cutting, welding, milling, coal, glass fibre, mineral fibre, graphite, powdered pesticide...\*\*



Asbestos (without manipulation), powdered pesticide, biological agents, pharmaceutical powder, treated wood, hard wood (exotic), chromium, lime, lead...\*

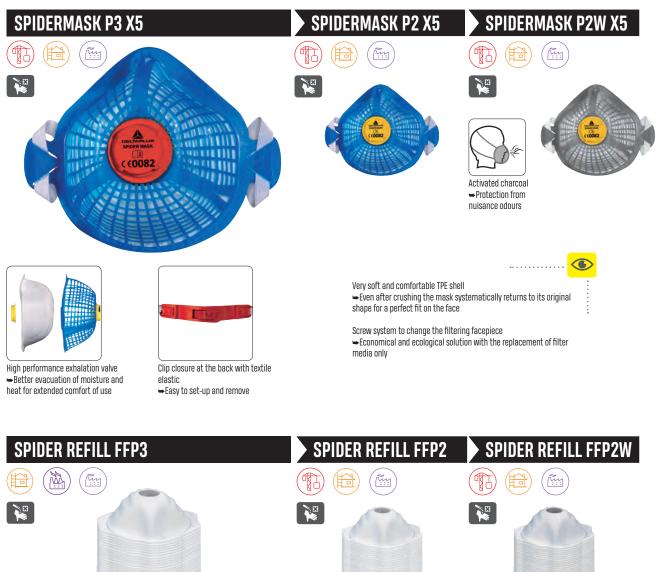


Optional test of EN149: 2001 standard for clogging of dolomite dust. \*The Assigned Protection Factor, might be different according local regulations. \* This list is indicative but not contractual and can not engage the responsibility of DELTA PLUS.









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#### An economical and ecological solution while ensuring maximum user comfort.

<b>V</b>	Ø	o <sup>C</sup>	- - - - -		Ŷ
SPIDERMASK P3 X5	Blue	Box of 5 reusable FFP3 dust mask. 5 Reusable moulded mask shells in TPE. Replaceable non woven synthetic fibre disposable filter (SPIDERREFILL FFP3). High performance valve which unscrews to allow the user to change the mask filter. Adjustable straps. Back fixing with clip.			
SPIDERMASK P2 X5	DIUC	Box of 5 reusable FFP2 dust mask. 5 Reusable moulded mask shells in TPE. Replaceable non woven synthetic fibre disposable filter (SPIDERREFILL FFP2). High performance valve which unscrews to allow the user to change the mask filter. Adjustable straps. Back fixing with clip.	CE	EN149	
SPIDERMASK P2W X5 Grey		Box of 5 reusable FFP2W dust mask. 5 Reusable moulded mask shells in TPE. Active carbon non woven synthetic fibre disposable masks for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Replaceable. High performance valve which unscrews to allow the user to change the mask filter (SPIDERREFILL FFP2W). Adjustable straps. Back fastening with clip.	D		x 10
SPIDER REFILL FFP3	M/LiLa	Box of 30 pieces of non woven synthetic fibre disposable masks FFP3 protection. Spare parts for SPIDER MASK.	•         •		<ul> <li>C</li> <li>C</li></ul>
SPIDER REFILL FFP2	White	Box of 30 pieces of non woven synthetic fibre disposable masks FFP2 protection. Spare parts for SPIDER MASK.	80 0 0 0 0 0 0 0 0 0 0 0		00 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SPIDER REFILL FFP2W	Grey	Box of 30 pieces of active charcoal non woven synthetic fibre disposable masks FFP2W for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Spare parts for SPIDER MASK.			

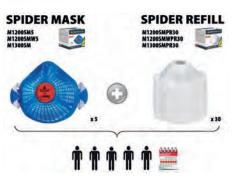






Less waste : Re-use of the valve, the elastics, and TPE shell. More economical : Replacing of the filter media without discarding the other components of the mask.

Comfort superior to a classic disposable mask : Adjustment of the elastic via the rear clip.





Ecology a topic at the heart of the news. And at the heart of PPE? DELTA PLUS offers a green alternative to disposable masks : SPIDERMASK, a disposable mask with 70% of its components reusable for 1 month !

Marie Pourcher, Head Protection Product Expert

# - RESPIRATORY PROTECTION DISPOSABLE RESPIRATORY

		o <sup>C</sup>	V	
M1304V	White	Box of 10 non woven synthetic fibre disposable masks FFP3. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.		
M1304VW	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP3 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.		
M1204V		Box of 10 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	<b>C €</b> EN149	x 10
M1104	White	Box of 20 non woven synthetic fibre disposable masks FFP1. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.		
M1204		Box of 20 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.		







High performance exhalation valve ➡Minimises moisture inside the mask



M1304VW



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#### Tubular textile elastic

⇒Very comfortable to wear







#### • RESPIRATORY PROTECTION DISPOSABLE RESPIRATORY CONFORT PLUS

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M1300V		Box of 5 non woven synthetic fibre disposable masks FFP3. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Complete ultra-soft face joint ring. High performance exhalation valve.		x 10
M2FP3V	White	Pack of 2 non woven synthetic fibre disposable masks FFP3. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Complete ultra-soft face joint ring. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C E EN149 Those NIOSH	x 36
M1200VPLUS		Box of 5 non woven synthetic fibre disposable masks FFP2. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Complete ultra-soft face joint ring. High performance exhalation valve.		x 10
M2FP2VPLW		Pack of 2 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Flame retardant. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C C EN149 THOSH N95 or N99	x 40





Ultra-soft full facial seal Increased comfort and optimal sealing



Wide adjustable straps Precise tightening and adjustment







High performance exhalation valve ➡Minimises moisture inside the mask



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# **DISPOSABLE RESPIRATORY** *CONFORT*

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M1300V2	M1300V2       White       Box of 10 non woven synthetic fibre disposable masks FFP3. Moulded mask. Nose clip for adjustment. EVA edge for extra comfort under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.         Image: Comparison of the image of the im						
M1200V	M1200V       White       Box of 10 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.         Image: Control of the image:						
M2FP2V	White       Pack of 2 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Reinforced foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.         ())       ())						
M1200VW	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C C EN149 NIOSH N95	x 10			
M2FP2VW	White	Pack of 2 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C E EN149 NIOSH N95	x 36			
M1100V	White	Box of 10 non woven synthetic fibre disposable masks FFP1. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.         Image: Continuous wear time.         Image: Continuous wear time.	C€EN149	x 10			
M1200	White	Box of 20 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	C C EN149 MIOSH N95	x 10			
M1100	White	Box of 20 non woven synthetic fibre disposable masks FFP1. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	C€EN149	x 10			
M3FP1	White	Pack of 3 non woven synthetic fibre disposable masks FFP1. Without valve. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	C E EN149	x 36			

### L. RESPIRATORY PROTECTION **DISPOSABLE RESPIRATORY** POCKET - PAPIA

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M1300VB	White	Box of 10 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag.	C€ EN149	x 10
	_	👘 🗎 🚱 💌 🙋	6 6 6 6 6 7	* * * *
M1200VB	White	Box of 10 non woven synthetic fibre disposable masks FFP2. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C E EN149 NIOSH N95	x 10
M1200VBW	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example).Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C E EN149	x 10
M1100VB	White	Box of 10 non woven synthetic fibre disposable masks FFP1. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149	x 10
M1300VP	White	Box of 10 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. Complete foam face joint ring. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C€ EN149	x 10
M1200VP	White	Box of 10 non woven synthetic fibre disposable masks FFP2. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C C EN149 MIOSH N95	x 10
M1200VPW	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic ndividual plastic bag. DOLOMIA optional test for longer continuous wear time.	C E EN149 Ziosh NIOSH N95	x 10

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## RESPIRATORY PROTECTION HELP WITH CHOICE



Or directly to the address: http://respiratory.deltaplus.eu

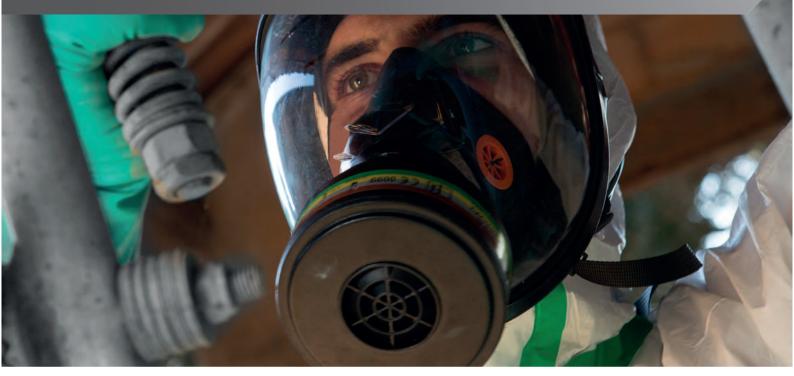
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# L. RESPIRATORY PROTECTION REUSABLE RESPIRATORY

			R	¢ <sup>0</sup>			
	M9000E A2	Tation - 1 - 1	Black	Box of 4 A2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> A2	x 10
	M9000E A2P3		Black	Kit of 4 A2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> A2P3R	x 10
	M9000E A2B2E2K2		Black	Box of 4 A2B2E2K2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	<b>EN148-1</b> <b>EN14387</b> A2B2E2K2	x 10
	M9000E A2B2E2K2P3		Black	Box of 4 A2B2E2K2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.         Image: Constraint of the second strength of the second strenge strength of the second strength of the seco	CE	<b>EN148-1</b> <b>EN14387</b> A2B2E2K2P3R	x 10
	M9000 P3		Black	Kit of 4 P3R filtering cartridges for M9200 ROTOR GALAXY,         M9300 STRAP GALAXY full face masks.         G-3       (1)         (1)       (1)         (1)       (1)	CE	<b>EN148-1</b> <b>EN143</b> P3R	x 10
	M9000E A2B2		Black	Box of 4 A2B2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> A2B2	x 10
	M9000E A2B2P3		Black	Box of 4 A2B2P3 filtering cartridges for M9200 ROTOR GALAXY and         M9300 STRAP GALAXY full face masks.         6-3       (a)         (b)       (b)	CE	<b>EN148-1</b> <b>EN14387</b> A2B2P3	x 10
	M9000E A2B2E2P3		Black	Box of 4 A2B2E2P3 filtering cartridges for M9200 ROTOR GALAXY and         M9300 STRAP GALAXY full face masks.         6-3       (m)         (m)       (m)	CE	<b>EN148-1</b> <b>EN14387</b> A2B2E2P3R	x 10
	M9000E A2B2E2K2HGP3		Black	Box of 4 A2B2E2K2HgP3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> A2B2E2K2HgP3R	x 10
	M9000E AX	Carene a st	Black	Box of 4 AX filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	EN148-1 EN14387 AX	x 10
	M9000E AXP3		Black	Box of 4 AXP3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> AXP3R	x 10
On request	M9000E B2	1 Kent - 1 - 1 - 1	Black	Box of 4 B2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> B2	x 10
0	M9000E B2P3		Black	Box of 4 B2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> B2P3	x 10
	M9000E E2		Black	Box of 4 E2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> E2	x 10
	M9000E E2P3		Black	Kit of 4 E2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> E2P3	x 10
	M9000E K2		Black	Box of 4 K2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> K2	x 10
	M9000E K2P3		Black	Box of 4 K2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> K2P3R	x 10
	M9000E A2B2E2		Black	Box of 4 A2B2E2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	<b>EN148-1</b> <b>EN14387</b> A2B2E2	x 10

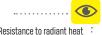
**R** 











Class 3 : Resistance to radiant heat and flame ⇒Use in extreme conditions



Rotor® system (patented) - Registered design, registered ROTOR® brand, patented fastening system - Simple and quick adjustment with or without gloves



Adjustable size S/ M/ L Suitable for most types of faces

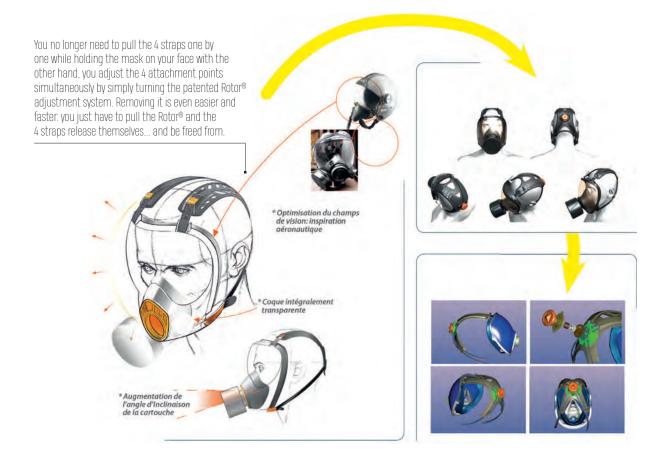


Extra large field of vision (210°) ⇒Guaranteed maximum visual comfort

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#### The first complete mask that can be set and adjusted with one hand!

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M9200 - ROTOR Galaxy		Silicone full face mask with innovative ROTOR® system adjustment (patented), one-hand use even when wearing gloves. Wide polycarbonate screen (210°). Inside silicone half-mask to reduce mist and increased comfort (3 inhalation valves, an exhalation valve, phonic system). Adjustable sizes: S, M, L. Compatible with EN148-1 type cartridges as M9000 range, sold separately. Storage bag included.				682 g	
	Black-Orange		Adjustable	CE	EN136 EN148-1		x 6
M9300 - STRAP Galaxy		Silicone full face mask with strap adjustment. Wide polycarbonate screen (210°). Inside silicone half-mask to reduce mist and increased comfort (3 inhalation valves, an exhalation valve, phonic system). Adjustable size. Shoulder strap to hold the mask when not in use. Compatible with EN148-1 type cartridges M9000 range, sold separately. Storage bag included.				616 g	* * * * * * * * * * * * * * * * * * *



One of the key points to evaluate the performance of a complete respirator, and therefore the protection optimised for the user, is the adjustment. A good mask is in fact useless if the user adjusts it incorrectly on his face. Moreover, in some work situations, you have to work quickly and well. From this observation was born our idea to develop a complete mask that can adjust ultra quickly.

Marie Pourcher, Head Protection Product Expert

## - RESPIRATORY PROTECTION REUSABLE RESPIRATORY

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M6200 JUPITER		Comfort half mask in tri-material: Half mask body in Thermo-plastic Elastomer (TPE) - Support for cartridge anchorage in polyethylene HD (HDPE) - Valve protective housing in polypropylene (PP). Elastic straps. To be used with 2 filter cartridges, M6000 series, sold separately. Cardboard packaging.			
M6100 JUPITER	Black-Grey	Comfort half mask in tri-material: Half mask body in Thermo-plastic Elastomer (TPE) - Support for cartridge anchorage in polyethylene HD (HDPE) - Valve protective housing in polypropylene (PP). Elastic straps. To be used with 1 filter cartridges, M6000 P3, M6000 PREP3 or M6000 A1, sold separately. Cardboard packaging.	Adjustable	C€ EN140	x 15
M6400 JUPITER		Comfort half mask bi-filter: Half mask body in polypropylene (PP) - Thermplastic (TPE) overmould. Elastic straps. To be used with 2 filter cartridges, M6000 series, sold separately. Shell packaging.	M/L		

#### M6200 JUPITER



#### M6100 JUPITER



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←Compatible with the M6000 cartridge range (gas and particles)



# M6400 JUPITER





Thermoplastic over moulding (TPE) : Secured joints - Low breathing resistance - Enhanced security



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M6400 MARS KIT	Black-Grey	Comfort half mask with bi filters : Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges A2 and 2 prefilters P2. Elastic straps. Plastic shell packaging.	M/L	EN140 EN14387 A2 EN143 P2R	x 10
M6400 SPRAY KIT	Black-Grey	Comfort half mask with bi filters : Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges A2 and 2 prefilters P3. Elastic straps. Plastic shell packaging.	M/L	EN140 EN14387 A2 EN143 P3R	x 10
M6400 CHEM KIT	Black-Grey	Comfort half mask with bi filters : Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges ABEK1 and 2 prefilters P3. Elastic straps. Plastic shell packaging.	M/L	EN140 EN14387 A1B1E1K1 EN143 P3R	x 10
M6000 A1	Grey	Pack of 2 A1 filtering cartridges for M6000 JUPITER serie half masks.		C E EN14387 A1	x 30
M6000E A2	Grey	Pack of 2 A2 filter cartridges for M6200 JUPITER half-mask and M6400-JUPITER half mask.	- - - - - - - - - - - - - - - - - - -	C E EN14387 A2	x 30
M6000E ABEK1	Grey	Pack of 2 A1B1E1K1 filter cartridges for M6200 JUPITER half-mask and M6400-JUPITER half mask.		C E EN14387 A1B1E1K1	x 30
M6000E PREP2	Grey	Set of 6 P2 pre-filters and 2 adapters for M6000 JUPITER half-mask serie. To use with M6000E filters.	- 	CE EN143 P2R	x 30
M6000E PREP3	Grey	Set of 2 P3 pre-filters and 2 adapters for M6000 JUPITER half-mask serie. To use with M6000E filters.		CE EN143 P3R	x 30
M6000 P2 CLIP	Grey	Set of 2 P2 filter cartridges for M6000 JUPITER serie half masks + 20 spare disposable filters.		CE EN143 P2NR	x 30
M6000 P2	Grey	Pack of 2 P2 filter cartridges for M6000 JUPITER serie half masks.	2 2 2 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CE EN143 P2R	x 30
M6000 P3	Grey	Pack of 2 P3 filter cartridges for M6000 JUPITER serie half mask.		CE EN143 P3R	x 30
	-	▲ 65		-	~

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# DESIGNING MANUFACTURING YOUR SAFETY AT WORK

# HAND PROTECTION

#### HIGH-TECH GLOVES

- 070 help with choice
- 072 Handling of sharp-edged objects
- 084 Anti static works
- 086 Precision work
- 088 General handling
- 090 Handling in oily environment

#### SYNTHETIC GLOVES

- 104 Help with choice
- 106 Works in industry
- 108 Works requiring chemical resistance
- 120 Disposable

#### LEATHER GLOVES

- 124 Help with choice
- 125 Handling in cold environment
- 126 Handling in wet environment
- 128 General handling
- 132 Welders works
- 136 Handling in cold environment

#### **KNITTED GLOVES**

- 135 Handling requiring cut and heat resistance
- 137 Small handling

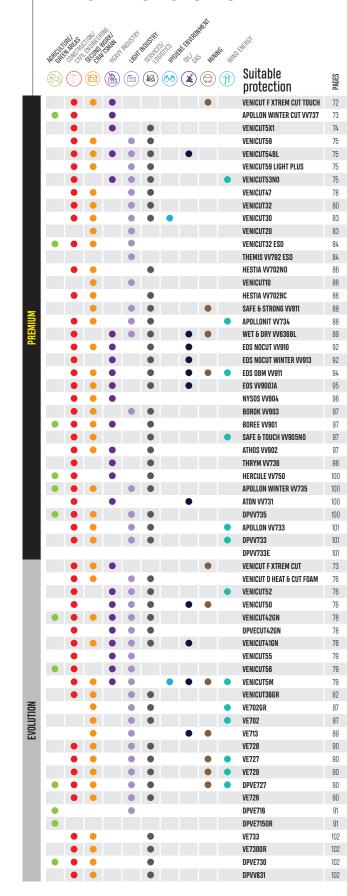
393 • TECHNICAL INFORMATION



HAND PROTECTION

### HAND PROTECTION HELP WITH CHOICE

**HIGH-TECH GLOVES** 



Suitable PAGES protection VENICUT58 77 ECONOCUT5M 77 VENICUT57G3 • 77 VENICUT44 79 VENICUT43 79 VENICUT34 83 DPVECUT34 83 VENICUT33 83 • VE702PG 87 VE702PN 87 **SSENTIEI** DPVE702PG • 87 DPVE702PN 87 VE702P 87 • DPVE702P 87 VE715GR 91 • VE712GR 91 • VE722 91 DPVE712GR 91 • VE631 103 103 VE799 VF630 103

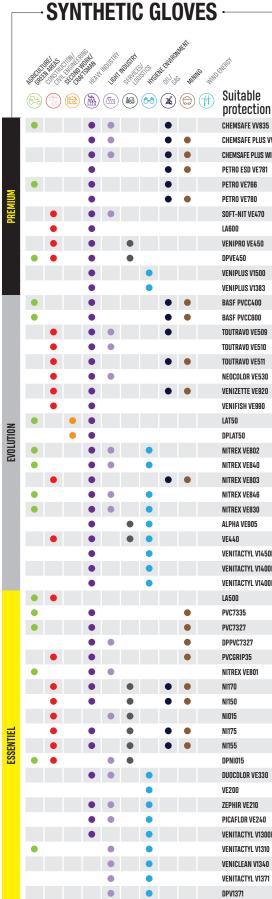


#### $^-$ How to identify sizes ?

6	7	8	9	10	11	12
RED	YELLOW	BROWN	BLACK	BLUE	GREY	GREEN

IMPLEMENTATION OF A COLOUR-CODING SYSTEM FOR HIGH-TECHGLOVES AND Some Leather gloves: Uniform sizes for easy identification.

REFER TO PAGE 383 TO FIND THE CORRECT SIZE



NH <sup>RD</sup>	
light.	
Suitable protection	PAGES
CHEMSAFE VV835	106
CHEMSAFE PLUS VV836	107
CHEMSAFE PLUS WINTER VV837	107
PETRO ESD VE781	108
PETRO VE766	108
PETRO VE780	108
SOFT-NIT VE470	113
LA600	116
VENIPRO VE450	116
DPVE450	116
VENIPLUS V1500	120
VENIPLUS V1383	122
BASE PVCC400	109
BASF PVCC600 Toutravo ve509	109
TOUTRAVO VESO9 TOUTRAVO VESO	110
TOUTRAVO VE510 TOUTRAVO VE511	110 111
NEOCOLOR VE530	111
VENIZETTE VE920	112
VENIZETTE VE920 VENIFISH VE990	112
LATSO	112
DPLAT50	112
NITREX VE802	114
NITREX VE840	114
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NITREX VE846	115
NITREX VE830	115
ALPHA VE905	116
VE440	116
VENITACTYL V1450B100	121
VENITACTYL V1400B100	121
VENITACTYL V1400PB100	121
LA500	103
PVC7335	109
PVC7327	109
DPPVC7327	109
PVCGRIP35	109
NITREX VE801	115
NI170	117
NI150	117
NI015	117
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NI155	117
DPNI015	117
DUOCOLOR VE330	118
VE200	118
ZEPHIR VE210	118
PICAFLOR VE240	118
VENITACTYL V1300B100	121
VENITACTYL V1310 Veniclean V1340	123 123
VENICLEAN VI340 VENITACTYL VI371	123
DPV1371	123
51 41371	120

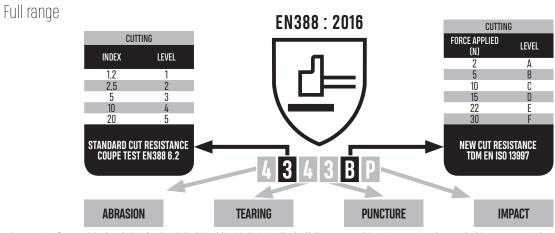
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	ASBERT	ARCHAR CONCINI	Contraction of the contraction o	AL HAN HAUST	HUSELS	Rothen and S And	AP WHOLH	ja L	
	6-2	B	<b>(</b>				A S	Suitable protection	PAGES
		•			•		F	IBKV02	126
	•	•	•		•		В	UCH520V	127
		•					F	IB49	127
REMIU				•			T	ERK400	132
			•	•			T	ER250	133
				•			C	RYOG	136
		•	•		•		F	BF50	125
		٠			•		D	СТНІ	125
		•			•		C	BHV2	127
	٠	٠			•		D	PCBHV2	127
		•	•		•		F	B149	128
N		٠			•		5	1FEDF	128
EVOLUTION					•		5	OMAC	128
EVO		٠			•		G	FBLE	128
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ESSENTIEL		٠	•		•		F	CN29	129
SEA		•					F	P159	129
ŭ	•	٠			•		D	S202RP	130
							D	C103	130
	•	٠					D	PDC103	130
				•			D	PTC715	133
				•			C	A615K	134
				•			C	A515R	134
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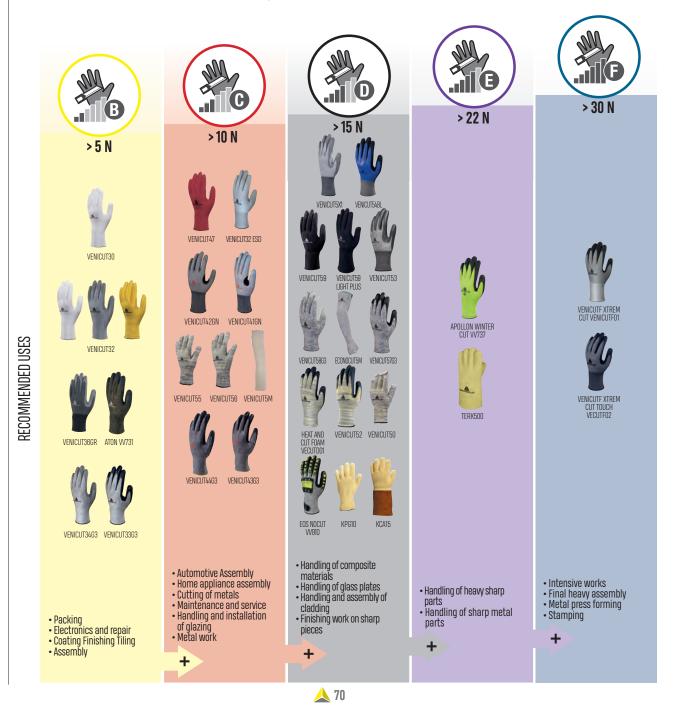
🔔 69

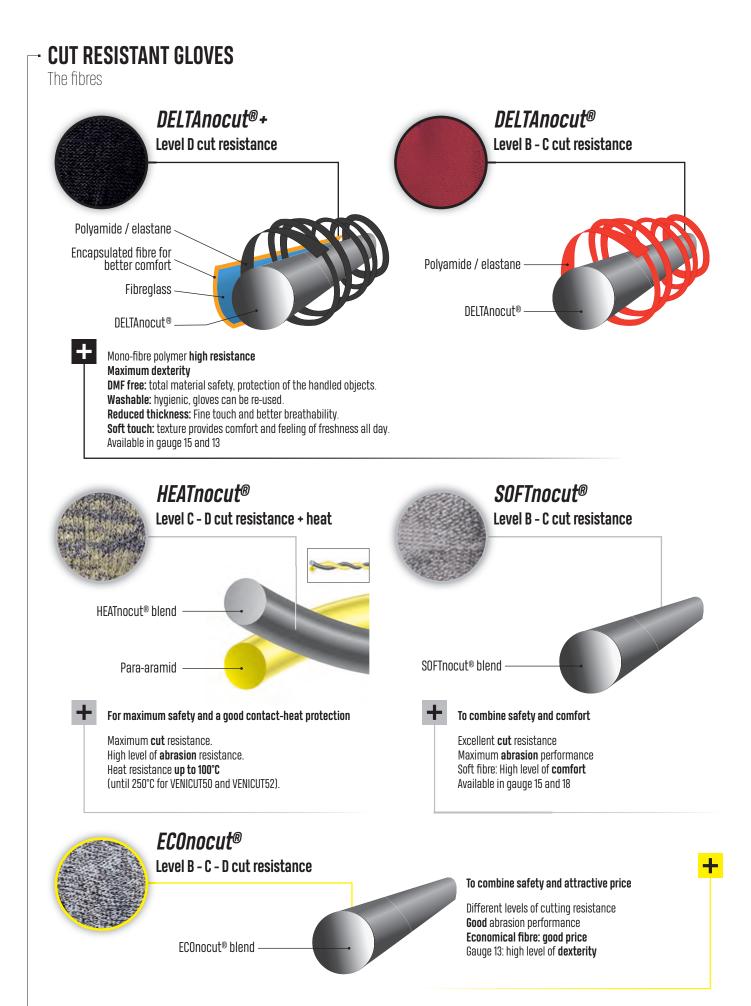
# HIGH-TECH GLOVES

#### - CUT RESISTANT GLOVES



For gloves made of very resistant materials (materials that blunt the blade during the test), the Coupe Test is no longer relevant, a TDM test becomes mandatory. The TDM test is also more representative of work situations with high risk of cut.





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# -- HIGH-TECH GLOVES HARP-EDGED OBJECTS

# The perfect combination of the thinnest gauge on the market (gauge 18) and the highest cut protection level (TDM F).



	•	o <sup>o</sup>	till &	<b>V</b>	
VENICUT F XTREM CUT	Grey-Black	na supervision of the cost of the second sec	06 / 07 / 08 09 / 10 / 11	EN388 4 X 4 3 F	
APOLLON WINTER CUT VV737	Fluorescent yellow-Black	Acrylic/high performance polyethylene fibre. Foam latex coating on palm and fingertips. Gauge 10.	08 / 09 / 10 / 11	CCE EN388 3 X 4 3 E EN511 X 3 X X ANSI-ISEA 105 A5 A5	x 60





market ←Comfort and flexibility for heavy work



#### **APOLLON WINTER CUT VV737**



Cut protection and brushed acrylic support ⇒Ideal in extreme environments Maintains heat
 →Very good cut protection (level E)



≤**30°**℃

**X**5







Latex foam ⇒Increased breathability → Inorococco broatnability
 (feeling of freshness)
 → Dexterity and comfort





# - HIGH-TECH GLOVES HANDLING OF SHARP-EDGED OBJECTS

#### Safety assured thanks to the combination of anti-cut and leather reinforcement threads. Great resistance for intensive work all day!



		o <sup>o</sup>	tille.		Î
VENICUT5X1	Grey	DELTAnocut®+ high performance fibre. Polyurethane coating and cowhide on palm and fingertips. Gauge 13.	09 / 10 / 11	CE EN388 4X43D ANSI-ISEA 105 A5	x 60







Polyurethane coating Very soft and breathable material bringing comfort and dexterity Good abrasion and tear resistance







人 74

We started from the need of operators in the automotive industry to combine strength, dexterity and finesse of touch. With a particularly complex technical challenge: to develop the shape of the piece of leather that must both fully respect the anatomy of the hand and the technicality of the fibre of a cut protection glove. Also, we are proud to present one of the most best current technical advances in the field of the protection glove.

Laetitia Guillerm, Hand Protection Product Expert

	R	o <sup>C</sup>	<b>LIVE</b>		
VENICUT59	Black	DELTAnocut®+ high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13.	07 / 08 / 09 10 / 11	EN388 ANSI-ISEA 105 4 X 4 2 D A4	
VENICUT59 LIGHT PLUS		DELTAnocut®+ high performance fibre. 12 cm cuff. Gauge 13.	06 / 07 / 08 09 / 10 / 11	EN388 ANSI-ISEA 105 3 X 4 X D A3	v 60
VENICUT54BL	Royal blue- Black	DELTAnocut®+ high performance fibre. Double nitrile coating. Gauge 13.	08 / 09 / 10 / 11	EN388 4 X 4 3 D ANSI-ISEA 105	x 60
VENICUT53NO	Black	DELTAnocut®+ high performance fibre. Nitrile micro-foam coating on palm and fingertips. Gauge 15.	07 / 08 / 09 / 10	EN388 4X 4 3 D	

#### VENICUT59







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⇒Increased lifespan

Polyurethane coating •Very soft and breathable material bringing comfort and dexterity ➡Good abrasion and tear resistance



#### **VENICUT59 LIGHT PLUS**



DELTAnocut®+ ➡Excellent cut resistance (level D) ⇒Unparalleled finesse of touch





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## - HIGH-TECH GLOVES HANDLING OF SHARP-EDGED OBJECTS

	•	o <sup>c</sup>	till the second s		Û
VENICUT D HEAT & CUT Foam	Yellow-Grey- Black	HEATnocut® high performance fibre. Gritty foam nitrile coating on palm and fingertips. Gauge 13.	07 / 08 / 09 / 10 / 11	EN388 4 X 4 2 D EN407 X 1 X X X X	
VENICUT52	Yellow-Black	HEATnocut® high performance polyethylene fibre. Latex coating on palm and fingertips. Gauge 10.	07 / 08 / 09 / 10	CCE EN388 3 X 4 2 D EN407 X 2 X X X X ANSI-ISEA 105 A3 A3	x 60
VENICUT50	Yellow-Grey	HEATnocut <sup>®</sup> High performance polyethylene fibre. Cowhide on palm and fingertips. Gauge 10.	09 / 10	EN388 4 X 4 3 D EN407 X 1 X X X X EN407 A4	

#### **VENICUT D HEAT & CUT FOAM**

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Nitrile foam coating • Excellent resistance to abrasion • Rough finish for excellent grip on handled objects





HEATnocut<sup>®</sup> High Performance Polyethylene • Contact heat and cut resistance



	•	o <sup>C</sup>	<b>LIVE</b>	<b>V</b>	
VENICUT58	Grey	ECONOCUT® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 / 08 / 09 / 10	EN388 ANSI-ISEA 105 4 X 4 2 D A3	x 40
ECONOCUT5M	White-Black	ECONOCUT® high performance fibre. Knitted sleeve with thumbhole. Length 55 cm. Gauge 13. Bag of 1 pair.	One size	$C \in \overset{EN388}{=} \underset{4 \times 4 \times 0}{\overset{ANSI}{=}} \underset{A2}{\overset{ANSI-ISEA 105}{=}}$	x 60
VENICUT57G3	Grey-Black	ECONOCUT® high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 / 08 / 09 / 10	EN388 ANSI-ISEA 105 4 X 4 3 D A3	x 40









## - HIGH-TECH GLOVES HANDLING OF SHARP-EDGED OBJECTS

	•	a <sup>¢</sup>	<b>LIVE</b>	$\checkmark$	Û	
VENICUT47	Red	DELTAnocut® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13.	06 / 07 / 08 09 / 10 / 11	<b>EN388</b> 4 X 4 2 C	x 60	
VENICUT42GN		Polyurethan	SOFTnocut® high performance fibre. Polyurethane coating on palm and	07 / 08 / 09 / 10 / 11		ISI-ISEA 105
DPVECUT42GN	Grey	fingertips. Reinforcement between the thumb and index finger. 10 cm cuff. Gauge 15.	09	$\epsilon \bigtriangledown 4 \times 4 3 \circ$ (Ansi As		
VENICUT41GN		SOFTnocut® high performance fibre. Nitrile coating on palm and fingertips. Reinforcement between the thumb and index finger. 10 cm cuff. Gauge 15.	07 / 08 / 09 / 10 / 11	EN388 4 X 4 4 C	x 60	







thumb and index finger ➡Increased protection ➡Increased lifespan

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	R	o <sup>o</sup>	<b>Line</b>	<b>V</b>	Ŷ
VENICUT55		HEATnocut® High performance polyethylene fibre. Gauge 10.	07 / 09 / 10	EN388 2 X 4 X C X X X X X X	400
VENICUT5M	Yellow-Grey	HEATnocut® High performance polyethylene fibre. Knitted sleeve with thumbhole. Length 45 cm. Gauge 13.	One size		x 120
VENICUT56		HEATnocut® High performance polyethylene fibre. PVC dots on palm. Gauge 10.	07 / 09 / 10	CE SX4XC X1X XXX ANSI-ISEA 105 A3	x 60
VENICUT44	Orau Diagle	ECONOCUT® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 / 00 / 00 / 10	EN388 4 X 4 2 C	
VENICUT43	···· Grey-Black	ECONOCUT® high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	··· 07 / 08 / 09 / 10	EN388 4 X 4 3 C	x 40

#### **VENICUT55**





HEATnocut<sup>®</sup> High Performance Polyethylene — Contact heat (100°C for 15 seconds), and cut resistant — Very good level of abrasion resistance







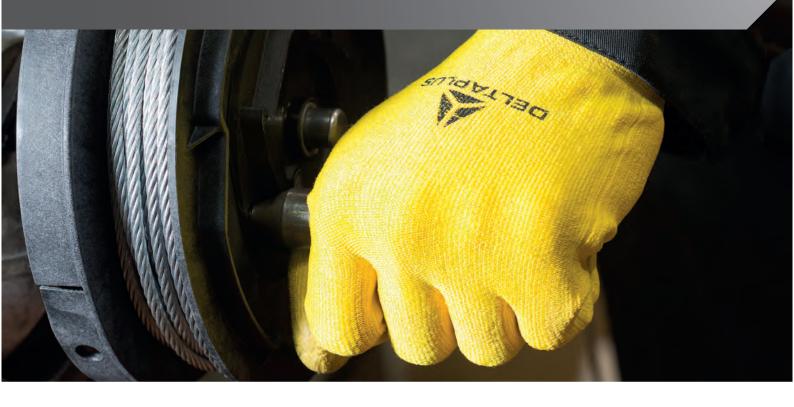
**VENICUT56** 







## - HIGH-TECH GLOVES HANDLING OF SHARP-EDGED OBJECTS



#### VENICUT32





Polyurethane coating • Very soft and breathable material bringing comfort and dexterity • Very good abrasion and tear resistance



Washable ➡Increased lifespan











# The choice of glove suited to the level of risk, ensured by the visual cue, guarantees work in secure conditions. A whole range dedicated to this approach.

	•	o <sup>o</sup>	<b>LIVE</b>		ļ	~	
	Yellow	···· DELTAnocut <sup>®</sup> high performance fibre.					
ENICUT32	Grey	Polyurethane coating on palm and fingertips. Gauge 15.	06 / 07 / 08 09 / 10 / 11	CE	EN388 4 X 4 2 B	(ANSI ANSI-ISEA A2	105
	White	ningercips. Gauge 13.		0 0 0 0 0			
Risk level	EN388:2016						
						<i>.</i>	
	Ď	<				VENICUT59 VENICUT59	Ŀ
		EN 130-7 TDM					
		S0 139				<u> </u>	
		E			VENICUT47		
	N						
	B			VENICUT32			
			<u> </u>				
	2						
			VENICUT20				
	N		)				
		VENICUTIO CHEMSAFE PLUS CHEMSAFE PLUS W336 WINTER W837 Occasional		Regular		Continuous	_
						0 + · · · · · · · · ·	

Blue : safe work without major risk (<5N) Green : working with low cut risk (micro-cuts) (5N) Yellow : working with moderate cut risks (6.5 N) Red : working with high cut risks, requiring regular wear of the glove (14 N) Black : working with very high cut risks, requiring the daily wear of the glove (16 N)



Initiated by the INRS approach, our concept is available in 5 colours, each associated with a different level of danger. This concept helps safety engineers to verify the proper wearing of the glove corresponding to the identified risk.

Coloured tablets are also provided by our teams during the validation of the concept during the study of the position. This allows all stakeholders to see that the glove worn is suitable.

This represents a significant gain for a company (optimisation of purchase costs) but also guarantees carriers to always be well protected !

Laetitia Guillerm, Hand Protection Product Expert

# -- HIGH-TECH GLOVES HANDLING OF SHARP-EDGED OBJECTS

# Its design with an 18 gauge cut protection thread makes this model one of the thinnest gloves in the field of cut protection.



	R	o <sup>c</sup>	<b>UUU</b>		V	l		Û
VENICUT30	White	DELTAnocut® high performance fibre. Gauge 15.	06 / 07 / 08 / 09 / 10		EN388 4 X 4 X B			x 60
VENICUT20	Green	Polyamide/Spandex. Polyurethane coating on palm and fingertips. Gauge 15.	06 / 07 / 08 /		EN388 4 2 4 2 B			
VENICUT34		ECONOCUT® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	09 / 10 / 11	CE	[元] EN388	ANSI	<b>Ansi-isea 105</b> A2	x 40
DPVECUT34	Grey	ECONOCUT® high performance polyethylene fibre. Polyurethane coating on palm and fingertips. Gauge 13.	07 / 09		3X42B			x 120
VENICUT33	00 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ECONOCUT® high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	06 / 07 / 08 / 09 / 10 / 11	• • • • • • • • • • • • • • • • • • •	<b>EN388</b> 3 X 4 3 B			x 40

VENICUT30





#### VENICUT20





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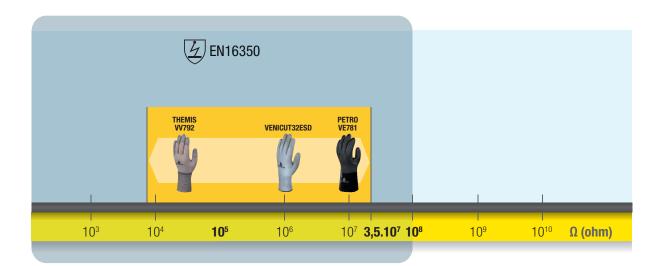
Also available with heade card →DPVECUT34

# - HIGH-TECH GLOVES ANTI STATIC WORKS

#### The range specially designed for Electrostatic Discharge (ESD) environments!



		o <sup>c</sup>	till &		Û
VENICUT32 ESD	Grey	DELTAnocut® high performance fibre and carbon fibre. Polyurethane coating on palm and fingertips. Gauge 15.	06 / 07 / 08	EN388 4 X 4 2 C EN16350 (ANSI ANSI-ISEA 105 A2	x 60
THEMIS VV792 ESD	Rust-coloured-Grey	Copper polyamide. Polyurethane coating on fingertips. Gauge 15.	09 / 10 / 11	EN388 X13XX EN16350	
PETRO ESD VE781	Black	Chemical PVC. PVC on cotton knitted lining gauge 13 with metal fiber. Rough- textured palm. Length: 30 cm. Thickness: 1.30 mm.	08 / 09 / 10 / 11	C C E EN388 4121X EN374-1 TYPE B J2 > 30 mn K6 > 480 mn L4 > 120 mn EN374-5 EN16350 EN16350	x 120



According to EN16350, electrostatic properties of protective gloves, the electrical resistance through a glove must be less than 10<sup>8</sup> Q. These gloves help protect you from the risk of explosion by dissipating (as much as possible) the electro-static electricity naturally present in the human body. They must be used in conjunction with shoes and antistatic clothing. The user must also be grounded. The performance obtained on our gloves ensures a high level of efficiency.



Car industry stakeholders are always looking for productivity gains. For this, they are aimed at manufacturers who can develop, design and manufacture products that meet their expectations. Their major wish was to have a versatile glove, protecting both the risk of cutting (level B) but also allowing dissipation of the electrostatic charge : we have developed the VENICUT32 ESD for them ! Coming from a best-sellers market (VENICUT32GR), this new model completes a deep range and is suited to all needs !

Laetitia Guillerm, Hand Protection Product Expert

## - HIGH-TECH GLOVES PRECISION WORK

# The quality and fineness of the weave makes this model one of the most comfortable gloves on the market.



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		o <sup>o</sup>	<b>Line</b>	<b>V</b>	Ŵ
VE702GR	Grey	100% polyamide. Polyurethane coating on palm and fingertips.			
VE702	White	Gauge 13.	06 / 07 / 08 09 / 10		x 240
VE702PG	····· Grey				
DPVE702PG	GIEY		06 / 07 / 09		x 120
VE702P	White	100% polyester. Polyurethane coating on palm and fingertips.	06 / 07 / 08 09 / 10	CE EN388 3121X	x 240
DPVE702P		Gauge 13.	07 / 09		x 120
VE702PN	Black		06 / 07 / 08 09 / 10 / 11		x 240
DPVE702PN			09 / 10		x 120





VE702PG

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Also available with header card DPVE702PG

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Seamless knit →More comfort for prolonged glove wear

Grey colour ➡Handling of soiled objects



**VE702P** 

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**VE702** 



Also available with header card →DPVE702P



VE702PN









# - HIGH-TECH GLOVES GENERAL HANDLING

	R	o <sup>o</sup>	<b>Line</b>	<b>V</b>	Ì
SAFE & STRONG VV811	Navy blue-Grey	, , , , , , , , , , , , , , , , , , , ,	06 / 07 / 08 / 09 10 / 11	EN388 4131X	v 100
APOLLONIT VV734	Fluorescent yellow-Black	Polyamide/Spandex. Foam nitrile and TPU coating on palm and fingertips. Gauge 15.	07 / 08 / 09 / 10	EN388 4121X	x 120

#### SAFE & STRONG VV811

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- Solvent-free coating -Suitable for sensitive people
- Respectful of the environment
   ►Ideal for the automotive industry

►No traces on the objects handled



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**APOLLONIT VV734** 

ñy

¥ 30°¢ x5





Gauge 15 ➡Finesse of touch ➡Very comfortable



Nitrile/TPU foam blend →Flexibility and dexterity →Reduced transpiration thanks to its very good breathability

DELTAPLUS



Easy visual identification at the workstation

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	•	a <sup>o</sup>	<b>Liste</b>	<	
WET & DRY VV636BL	Blue-Black	100% polyamide. Full nitrile coating of the hand. Second foam nitrile coating on palm and fingertips. Gauge 15.	07 / 08 / 09 / 10	EN388 4131X	x 120
VE713	Black	100% polyamide. Double nitrile coating on palm, fingers and half back. Gauge 13.		EN388 3121X	x 240

# WET & DRY VV636BL





100% polyamide support •Very good comfort



Nitrile coating →Very good mechanical performance →Good grip in oily/ greasy environment

TAPLUS



Double nitrile coating for oily work >1st smooth nitrile coating : impermeable to oils >2nd nitrile foam coating : good adhesion











Nitrile coating Very good mechanical performance Good grip in oily/ greasy environment



High coating ➡Very good protection of the hand

Double coating Increased lifespan Very good resistance to abrasion



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Gauge 15 ➡Lightness and flexibility

# - HIGH-TECH GLOVES HANDLING IN OILY ENVIRONMENT

	•	¢ <sup>0</sup>	<b>U</b> UU	♥	Î
VE728	Grey-Black	Polyester/ acrylic. Foam nitrile coating on palm and fingertips. Nitrile dots on palm. Gauge 13.	07 / 08 / 09 / 10	EN511 X 1 X	
VE727		Polyamide/Spandex. Nitrile/Polyurethane coating on palm and fingertips. Nitrile dots on palm. Gauge 15.		СЕ 🕒 EN388 3121х	
DPVE727			07 / 09	CE 🕒 3121X	x 120
VE729		Polyamide/Spandex. Nitrile/polyurethane coating on palm, fingertips and mid back. Nitrile dots on palm. Gauge 15.	07 / 08 / 09 / 10		• • • •
VE726		Polyamide/Spandex. Nitrile/Polyurethane coating on palm and fingertips. Gauge 15.	07 / 08 / 09 / 10 / 11		



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	•	a <sup>C</sup>	<b>U</b> UU	0 0 0 0 0 0		
VE715GR	Black-Grev	100% polyester. Nitrile coating on palm, fingertips and half-back. Gauge 13.	07 / 08 / 09 / 10	Γ	EN388	x 120
VE712GR		100% polyester Nitrile costing on poly and figgerting. Course 12	07 / 08 / 09 / 10 / 11		EN388 3121X	x 240
DPVE712GR	Grey-Black	100% polyester. Nitrile coating on palm and fingertips. Gauge 13.	09			x 120
DPVE716	Orange	Foam nitrile on polyamide lining. Fully coated. Gauge 15.	07 / 09 / 10	CE	EN388 4121	x 60
DPVE715	White-orange	100% polyester. Nitrile coating on palm, fingertips and half-back. Gauge 13.	07 / 09	(	EN388 2121X	v 100
VE722	Grey-Black	100% polyester. Foam nitrile coating on palm and fingertips. Gauge 13.	07 / 08 / 09 / 10	)	EN388 4121X	····· x 120
VE715GR		VE712GR				





Good grip in oily/ greasy environment

........... Nitrile coating Very good mechanical performance

Γ Available only with



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**DPVE715** 

Also available with header card ➡DPVE712GR



Available only with header card



**VE722** 

header card

**DPVE716** 

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# - HIGH-TECH GLOVES GENERAL HANDLING



### EOS NOCUT VV910







Increased lifespan



Double nitrile coating for oily work -1st smooth nitrile coating : impermeable to oils -2nd nitrile foam coating : good adhesion



Available only with header card



Flexible reinforcements Increased protection from impacts and pinches



Protection against impact in the metacarpal area. After an energy impact of 5J, the force transmitted to the back of the hand cannot exceed 4 kN.



Reinforcement between the thumb and index finger and on the palm. →Increased protection





Very good abrasion and cut resistance Increased lifespan

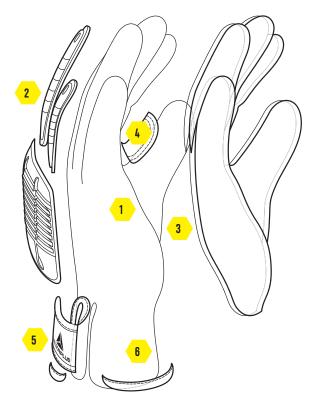
Kevlar® thread stitching ➡Increased lifespan

8 cm cuff with Velcro closure ➡Perfect adjustment ➡Reduced discomfort at the wrist, during prolonged use

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# Safe, qualitative and very comfortable; the EOS NO CUT is surely one of the gloves with the most interest on the market!

	•	e <sup>o</sup>	<b>LINE</b>	V		Û
EOS NOCUT VV910	V-11 0	High performance polyethylene support. Thermoplastic (TPR) reinforcement on back and fingertips. Smooth nitrile coating/foam nitrile on palm and fingertips. Embossed inside reinforcement on palm. Kevlar® thread on all the seams.		EN388 4 X 4 3 D P	<b>ansi-isea 105</b> A3	
eos nocut winter VV913	Yellow-Grey- Black	High performance polyethylene support. TPR reinforcement on back and fingertips. Double smooth nitrile coating/foam nitrile on palm and fingertips. Embossed inside reinforcement on palm. Inside acrylic lining. Kevlar® thread on all the seams.	08 / 09 / 10 / 11	<b>C E</b> <b>EN388</b> 4 X 4 4 D P <b>EN511</b> 1 3 X	ANSI-ISEA 105	x 60



#### 1- Insert on the palm

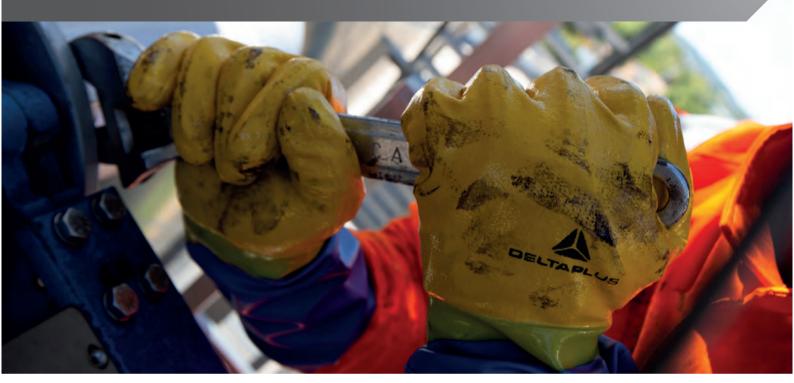
- 2- Metacarpal reinforcement
- 3- Double coating
- 4- Reinforcement
- 5- Clamping Velcro band
- 6-Woven HDPE wire structure + fibreglass



Initially, we developed this glove for targeted uses in the oil industry, but in the end, it has shown more usage possibilities ! We have combined several materials and techniques to make this "multi-protection" glove: cut resistant thread, nitrile double coating, reinforcements to protect from pinching and shocks. This versatility makes EOS NOCUT a must-have on the market.

Laetitia Guillerm, Hand Protection Product Expert

# - HIGH-TECH GLOVES GENERAL HANDLING



	•	o <sup>C</sup>	<b>LUUP</b>	<b>V</b>	Û
EOS OBM VV911	Blue-Yellow	Nitrile on cotton jersey lining. Double coating. Length: 40 cm.	08 / 09 / 10 / 11	CCE EN388 3112X P EN374-1 TYPE C A2 > 30 mn EN374-5	x 60

#### EOS OBM VV911









Cut cotton interlock stitched Absorption of perspiration and moisture for improved comfort in everyday life

16)

Available only with header card





Protection against impact in the metacarpal area. After an energy impact of 5), the force transmitted to the back of the hand cannot exceed 4 kN.

Nitrile Versatile and powerful material from chemicals, fats and oils

Double coating ➡Increased lifespan

Length : 40 cm —Complete arm protection

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OS VV900JA	Yellow-Grey- Black	Polyester/polyuretha reinforcements. Poly palm with PVC dots. cuff in neoprene.	amide/polyurethane	08 / 09 / 10 / 11 / 12	CE	EN388 32338 P	ANSI	<b>ansi-isea 105</b> A2	X E
EOS VV900J	A	×)							
2	B								
							23	Š.,	
	non-slip PVC (	on palm with dots due to its very	e only with header card						
	⇒oooa grip o						EOE		
				1111		IIII			
nforcement between th imb and index finger and palm.	e d on		P/						
Increased lifespan				TAT		1			
xible reinforcements		ALL A						_	
ncreased protection from pacts and pinches	n						al identifica	tion at the workstatic	on .
EOB						prolonged u	ljustment liscomfort : se	at the wrist, during	
ntification badge Belt attachment				1			e retention f the metac	for high security carpal area against lo	W
				DELT		, <u>,</u> ,			

<u>)</u> 95

# - HIGH-TECH GLOVES GENERAL HANDLING



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header card

Available only with

Non-slip reinforcements

→Very good grip of small

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	•	o <sup>C</sup>	<b>U</b> UU <b>B</b>	♥	
BOROK VV903	Grey-Black	Polyester back with polyurethane coating. Polyurethane/polyester palm. 3M Thinsulate™ lining. Neoprene wrist.	07 / 09 / 11	EN388 1221X 1 0	
SAFE & TOUCH VV905N0	Black-Yellow	Polyester/elasthane back. Artificial leather palm. Cuff in neoprene.	07 / 08 / 09 / 10 / 11	CE EN388 2121X	x 60
BOREE VV901	Yellow-Grey-	·····	07 / 09	<b>EN388</b>	
ATHOS VV902	Black	Polyester/elasthane back. Polyamide palm. PVC reinforcements on back and palm. Cuff in mesh.	10 / 11	EN388 3131X	- - - - - - -



Available only with header card













Double full latex coating -1st smooth latex coating : waterproof -2nd foam latex coating : good adhesion



Very good resistance to cold and humidity ➡Ideal in cold environments down to -30°C



Brushed acrylic support →Maintenance of warmth during outdoor work →Great comfort of use





# The versatility of the protections make these gloves real assets in all climatic circumstances!





It is due to listening to our users, demanding gloves assuring several simultaneous protections, including that from the cold that we worked with the convergence of several standards. This ranges from a waterproof glove performing in a cold environment with contact heat resistance to versatile glove that includes touch function or glove combining thermal hazards and cut resistance (Level B or E). Our hybrid gloves become true allies for workers !

Laetitia Guillerm, Hand Protection Product Expert

# - HIGH-TECH GLOVES **GENERAL HANDLING** COLD PROTECTION

	•	o <sup>0</sup>	<b>LIVE</b>	▼	Û
HERCULE VV750	Black	Inside: 100% acrylic gauge 7. Outside: 100% polyamide gauge 13. 3/4 foam nitrile coating on palm, fingers and half back.	09 / 10	EN388 3233X X X	
APOLLON WINTER VV735	Grey-Black Fluorescent yellow-Black	100% acrylic. Foam latex coating on palm and	• • • •	EN388 11327	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
DPVV735	Fluorescent orange-Black	fingertips. Gauge 10.	09	$\mathbf{C}\mathbf{E}$	x 60
ATON VV731	Black	Polycotton/Para-aramide. Latex coating on palm and fingertips. Gauge 10.	08 / 09 / 10 / 11	EN388 3 3 4 2 B EN407 X 2 X X X X EN511 X 2 X X X	0 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4

#### **HERCULE VV750**



## **APOLLON WINTER VV735**

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Latex foam Increased breathability (feeling of freshness) Dexterity and comfort



Brushed acrylic support Maintenance of warmth during outdoor work Great comfort of use



3

**ATON VV731** 

B



Latex coating

on handled objects

⇒Good resistance to abrasion ⇒Rough finish for excellent grip







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## - HIGH-TECH GLOVES GENERAL HANDLING LATEX COATING

V	
CE 🕑 EN388 2131X	x 120
	<b>C €</b> <sup>EN388</sup> 2131X

DPVV733 **APOLLON VV733** M (12) M DPVV733E DELTAPLUS ..... Also available with header card Latex foam DPVV7330R ⇒Increased breathability DPVV733JA (feeling of freshness) DPVV733VL ➡Dexterity and comfort DPVV733E Fluorescent support

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→Easy visual identification at the workstation

# - HIGH-TECH GLOVES GENERAL HANDLING

	•	o <sup>C</sup>	HUN	$\checkmark$	Ŷ
VE733	Orange-Navy Blue	100% polyester. PURE® latex coating on palm and fingertips. Gauge 13.	07 / 08 / 09 / 10 / 11	EN388 2142A EN407 X 2 X X X X	
VE7300R	Vollow orongo	Polycotton. Rough latex coating on palm and fingertips. Gauge 10.	08 / 09 / 10 / 11	CE	x 120
DPVE730	Yellow-orange		08 / 10	EN388 2142X	* * *
DPVV831	Green	Polycotton. High quality latex coating on palm, fingertips and mid back. Gauge 10.	07 / 08 / 09 / 10		• • • • •







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	•	o <sup>C</sup>	LUUS A	<b>V</b>	Û
VE631	Blue-Black	100% polyester. Foam latex coating on palm and fingertips. Gauge 13.	07 / 08 / 09 / 10	EN388 2131X	
VE630	Grey-Black	100% polyester. Latex coating on palm and fingertips. Gauge 13.	07700709710	~	x 120
VE799	White	Polycotton. Transparent full coating in natural latex on full hand and laminated red latex on palm and fingertips. Gauge 10.	10	EN388 3132X	X IZU
LA500	Green	Latex rough-textured on cotton Interlock lining. Knitted wrist. Ventilated back.	07 / 08 / 09 / 10	EN388 2121X	









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# SYNTHETIC GLOVES

) THE C		GLOVE ACCORD NVIRONMENT	ING	1 Lat Ma	amical ctic Acid 85% aric Acid 36% leic Acid Saturated thanol		+ 4 +
	<b>:HEM D-FINDE</b> tp://respiratory.de			1 Me 1 Me 1 Me	thanol 1,5% thotrexate thyl isoButyl Ketor thyl methacrylate thyl n-propyl ketor thyl tert-butyl ether	ie	
	$\int$				none 99%		_
	loves search engin	6 ted process. In order to respond to the various issues. De		a sha ya darbard yana difanai wal			
chemical product.							
CAS Num wr 1310 73-2	<ul> <li>Chemical</li> <li>Sodium Hydroxide 40%</li> </ul>		F PVCC480 X =	Ret + 1	Material +	8 (=450)	. Degradatik
1310 3-2 7654 93-9	Subhuric Apd 96%	K BASEP		EVCC400	PVC .	6 (=400) 8 (=400)	3.7%
67- 6-1	Methanol	4 <u>8455 P</u>		EVCC400	PVC	4 (+120)	3.6%
Showing 1 to 3 3 entre	és				11		
Individue charact Once this analyse is dea to your environment  CAS	Item of object to be manipulated blopes entritice of the second sec	te certain substances?)	enalite you to choose the product beal a	Nit recommended une	> 30 min 1 > 10 min 0 < 10 min	- 120 mm - 240	
The surf of code characteristic	Roof of odd to be reported blow writing of the <b>S</b> Number <b>Q</b> <b>1</b> <b>3</b> <b>5</b> <b>2</b> <b>7</b> <b>1</b> <b>3</b> <b>16</b> <b>46</b> <b>5</b> <b>5</b> <b>5</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	Chemics	Choosing In order to r range of p (Latex, Nit	a glove offering	g protection f licated proce arious issues s designed us PVC), which, b	or any applic iss. , Delta Plus o ing different by nature, ha	cation i offers a c mater ve spe
The surf of code characteristic	Roof of object to be even out of the event o	Chemics Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5%	Choosing In order to r range of p (Latex, Nit	a glove offering comp espond to the v rotective gloves rile, Neoprene, I	g protection f licated proce arious issues s designed us PVC), which, b	or any applic iss. , Delta Plus o ing different by nature, ha	cation i offers a cmater ve spe
The surf of code characteristic	Roof of odd to be reported blow writing of the second to be reported blow <b>S Number</b> <b>Q</b> <b>152.7</b> <b>1316-46-5</b> <b>2.71-6</b> <b>5.50.3</b> <b>5.89.8</b> <b>4.18.6</b> <b>7.21.1</b> <b>7.87.9</b> <b>7.98.2</b>	Chemics Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5% Benzaldehyde 99.5%	Choosing In order to r range of p (Latex, Nit	a glove offering comp espond to the v rotective gloves rile, Neoprene, I	g protection f licated proce arious issues s designed us PVC), which, b	or any applic iss. , Delta Plus o ing different by nature, ha	cation i offers a cmater ve spe
The surf of code characteristic	S Number S Number 9, 152.7 316.46-5 2.71-6 5.50.3 5.89-8 4.18-6 4.21-1 4.87-9 1-98-2 6.40.1	Chemics Benzaldehyde 99.5% Benzaldehyde 99.5%	Choosing In order to r range of p (Latex, Nit b	a glove offering comp espond to the v rotective gloves rile, Neoprene, I ehaviour in rega	g protection f licated proce arious issues s designed us PVC), which, b	or any applic iss. , Delta Plus o ing different by nature, ha	cation i offers a cmater ve spe
Che mical glocome offene pro-	S Number S Number 9, 1-52-7 316-46-5 2-71-6 5-50-3 5-89-8 4-18-6 7-21-1 7-87-9 1-98-2 1-102-71-6 1-02-71-6 1-02-71-6 1-02-71-6	Chemica Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 S% Benzaldehyde 99 S% Benzaldehyde 99 Triethanolamine 85% Triethanolamine 85%	Choosing In order to r range of p (Latex, Nit b	a glove offering comp espond to the v rotective gloves rile, Neoprene, I ehaviour in rega	g protection f licated proce arious issues s designed us PVC), which, b	or any applic iss. , Delta Plus o ing different by nature, ha mical produc	eation i offers a cmater ve spec ct.
The sum of conduct channel     The sum of conduct channel     The sum of channel     T	S Number S Number 9, 1-52-7 316-46-5 2-71-6 5-50-3 5-89-8 4-18-6 7-21-1 7-87-9 1-98-2 1-102-71-6 1-02-71-6 1-02-71-6 1-02-71-6	Chemica Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 S% Benzaldehyde 99 S% Benzaldehyde 99 Triethanolamine Triethanolamine	Choosing In order to r range of p (Latex, Nit b	a glove offering comp espond to the v rotective gloves rile, Neoprene, I ehaviour in rega	g protection f licated proce arious issues s designed us PVC), which, b ards to a cher	or any applic iss. , Delta Plus o ing different by nature, ha mical produc	eation i offers a cmater ve spe ct.
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Che mical glo     CAS Nambar	S. Number         Q           S. Number         Q           J.52.7         4           J.62.71.6         4           J.02.71.6         4           DVES SEARCH ENGINE         a compact           DVES SEARCH ENGINE         a compact           Chemical         4           Amyl Alconel 60%         4	Chemica Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 Benzaldehyde 99 S% Benzaldehyde 99 S% Benzaldehyde 99 Triethanolamine Triethanolamine	Choosing In order to r range of p (Latex, Nit b DELITAL YOLES NITREX VE802	a glove offering comp espond to the v rotective gloves rile, Neoprene, I ehaviour in rega	g protection f licated proce arious issues s designed us PVC), which, b ards to a cher	or any applic ss. , Delta Plus o ing different by nature, ha mical produc	eation i offers a cmater ve spe ct.
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## SUPPORTED OR NOT SUPPORTED ?

#### SUPPORTED: WHAT TYPE OF SUPPORT ?

• Cotton: Natural fibre

Exceptional comfort - Excellent capacity to absorb moisture - Insulating properties.

- Polyamide: Synthetic fibre, also called Nylon
- Resistance to traction and abrasion Elasticity and shape memory Washable.

• Polyester: Synthetic fibre

Resistance to traction and abrasion - Possibility to blend with cotton to enhance comfort.

• Kevlar®: Para-aramid fibre

Heat and Cut Resistance - Carbonised between 425° and 475° - Self extinguishing - Softness and high dexterity - Washable.

#### NON- SUPPORTED:

The mould is dipped directly into the material bath. Thus, the glove is very supple and allows high dexterity.

#### Different types of non supported gloves:

• Flocked (finished with a deposit of cotton particles): Pleasant to the touch, limits transpiration and facilitates donning and removal.

· Chlorinated (finished by washing the glove in chlorinated water): Gives a velvety touch and limits the effects of latex protein allergies.

#### Different types of disposable glove:

• Powdered (finished with a deposit of powder) : Pleasant to the touch, limits transpiration and facilitates donning and removal.

• Non powdered (finished by washing the glove in chlorinated water) : Gives a velvety touch and limits the effects of latex protein allergies.

## - SYNTHETIC GLOVES

-: NOT RECOMMENDED •: LOW ••: GOOD •••: VERY GOOD

PANIMELIC PLOKE2						
		Polyurethane	Latex	Nitrile	Neoprene	PVC
	Abrasion	•••	••	•••	••	•••
	Cutting	••	••	••	••	••
	Perforation	••	•••	•••	•	•
	Tearing	•••	••	•••	•	••
	Elasticity / Flexibility / Dexterity	•••	•••	•		•
	Degradation (heat contact, UV,)	•••	•	••	•••	•••
	Risks of allergy	•	•••	•	•	•
	Cold environment	••	•••	• (-40°C)	•••	•••
	Warm environment	••	•••	••	•••	• (>80°C)
	Oily / greasy environment	•	•	•••		•••

		Latex	Nitrile	Neoprene	PVC
Acetates	Acetate of ethyl (1)	-			•
Acids	Sulfuric acid (L),	•••	••	•••	•••
Primary alcohol	Methanol (A)	•••		•••	
Aldehydes (Alcohols & Ketones)	Formaldehyde 37% (R),	••	•	•	•
Amine	Diethylamine (G),	-	•	-	-
Bases (Lime, Sodium hydroxide)	Caustic soda (K),	•••	••	•••	•••
Ketone and ketone solvents	Acetone (B)	•••	-	•	•
Ether	Tetrahydrofuran (H)	-	-	-	-
Hydrocarbons and derivatives	Acetonitrile (C), n-Heptane (J),	-	•••	•••	
Aromatic solvents (styrene)	Toluene (F), Xylene	-	•••	•	•
Chlorinated solvents	Dichloromethane (D)	-		•	-
Aqueous solutions		•••	•••	•••	•••

**GENERAL FEATURES** 

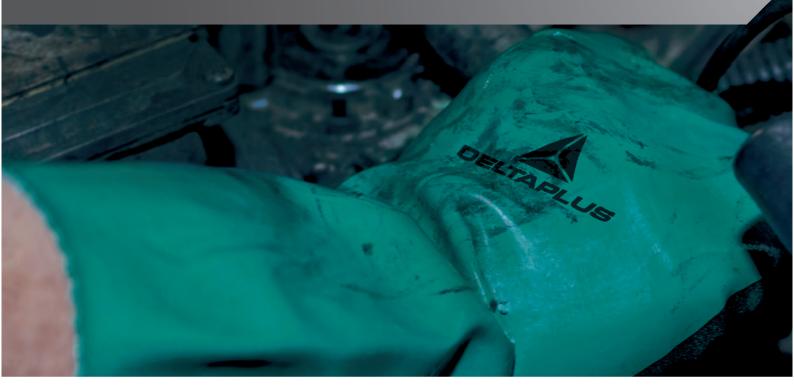
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# - SYNTHETIC GLOVES WORKS IN INDUSTRY



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CHEMSAFE VV835	Green	Double nitrile coating on polyamide lining. Third rough foam nitrile coating on palm and fingertips. Length: 35 cm. Thickness: 1.15 mm on cuff - 1.30 mm on palm.	08 / 09 / 10 / 11	C C E EN388 4121X EN374-5 EN374-5 EN374-1 TYPE B AJKL A 2 > 30 mn J 3 > 60 mn K 5 > 240 mn L 2 > 30 mn	x 60

**CHEMSAFE VV835** 











Rough structure palm ➡Very good grip





100% polyamide support →Very good comfort

Triple nitrile coating ➡Good resistance to abrasion

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	•	o <sup>0</sup>	till	<b>v</b>	Ŵ	
CHEMSAFE PLUS VV836	Blue	Double PVC/nitrile coating on polyamide lining. Gauge 18. Third rough PVC/nitrile coating on hand. Length: 30 cm. Thickness: 1 mm on cuff - 1.10 mm on palm.	00 / 10 / 11	TYPE B KLMP K 6 > 48(	TYPE B KLMP K 6 > 480 mm	
CHEMSAFE PLUS Winter VV837	Slue	Double PVC/nitrile coating on acrylic lining gauge 10. Third rough PVC/nitrile coating on hand. Length: 30 cm. Thickness: 1.15 mm on cuff - 1.35 mm on palm.		L 4 > 120 mn M 2 > 30 mn M 2 > 30 mn P 6 > 480 mn EN374-5 EN374-5	x 60	

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**CHEMSAFE PLUS VV836** 

Triple PVC/ nitrile coating ➡Good resistance to abrasion

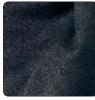
100% polyamide support ➡Very good comfort







Gauge 18 Lightness and flexibility



Rough structure hand ➡Very good grip





**CHEMSAFE PLUS WINTER VV837** 

X

Brushed acrylic support Maintaining heat for good thermal protection High comfort



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# **SYNTHETIC GLOVES WORKS REQUIRING CHEMICAL RESISTANCE**

	R	o <sup>c</sup>	<b>LIVE</b>	♥	Î
PETRO ESD VE781	Black	Chemical PVC. PVC on cotton knitted lining gauge 13 with metal fiber. Rough-textured palm. Length: 30 cm. Thickness: 1.30 mm.	08 / 09 / 10 / 11	EN388 4121X EN374-5 EN16350 EN16350 EN374-1 TYPE B	x 120
PETRO VE766	DL	Chemical PVC. PVC on cotton knitted lining gauge 13. Rough-textured hand. Length: 62 cm. Thickness: 1.30 mm.	00 / 00 / 10	CC E EN388 4131X J2 < 30 mn K6 < 480 mn L4 > 120 mn	x 60
PETRO VE780	Blue	Chemical PVC. PVC on cotton knitted lining gauge 13. Rough-textured hand. Length: 30 cm. Thickness: 1.30 mm.	08 / 09 / 10	<b>EN374-5</b>	x 120

## PETRO ESD VE781





Textured structure ⇒Good grip of handled objects







➡Material very resistant to oils, chemicals and petroleum derivatives

PVC

Metallic fibre ➡High electrostatic dissipation to reduce the risk of explosion



	•	o <sup>C</sup>	<b>LIVIA</b>		V		Ŷ
BASF PVCC400		Chemical PVC. PVC on interlock cotton lining. Length: 40 cm. Thickness: 1,20 - 1,40 mm.			EN388 4131X	EN374-1 Type B AKL	x 120
BASF PVCC600		Chemical PVC. PVC on interlock cotton lining. Length: 60 cm. Thickness: 1,20 - 1,40 mm.			EN374-5	A 4 > 120 mn K 6 > 480 mn L 6 > 480 mn	
PVC7335	Red	PVC on interlock cotton lining. Length: 35 cm. Thickness 0,90 mm.				<b>EN374-1</b> Type C	• • • • •
PVC7327		PVC on interlock cotton lining. Length: 27 cm.	CE	EN388	K 6 > 480 mn		
DPPVC7327	• • • • • • • • • • • • • • • • • • •	Thickness 0,90 mm.	0 0 0	0 0 0 0	3131X	K 0 2 400 IIIII	x 120
PVCGRIP35	Green	PVC on cotton jersey lining, double-dipped. Length: 35 cm. Thickness 0,90 mm.	09 / 10		EN374-5	EN374-1 TYPE C KN K 6 > 480 mn N 2 > 30 mn	

#### **BASF PVCC400**





#### **BASF PVCC600**

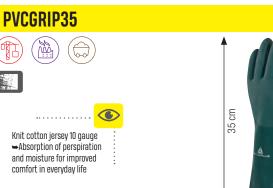
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**PVC7335**  $\bigcirc$ N 





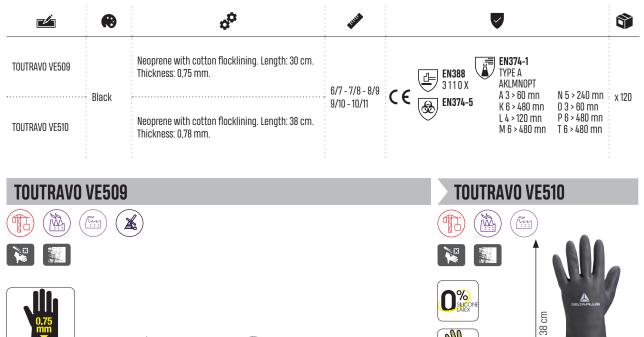
СШ 27 Also available with header card ⇒DPPVC7327

**PVC7327** 



Textured structure Good grip of handled objects

# - SYNTHETIC GLOVES WORKS REQUIRING CHEMICAL RESISTANCE





Embossed structure on palm and fingers Improved object grip



Embossed structure on palm and fingers Good grip of handled

objects



Neoprene -Versatile and highly efficient material against heat, detergents, alcohols, chemicals, greases and hydrocarbons

Flocked inside →Absorption of perspiration for comfort

	•	o <sup>o</sup>	<b>LUUS</b>		Î
TOUTRAVO VE511	Black	Neoprene on cotton knitted lining gauge 10. Length: 38 cm. Thickness 1,40 mm.	9/10 - 10/11	EN388 2132 X EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 Second Second	
NEOCOLOR VE530		Latex/Neoprene mix with cotton flocklining. Length: 30 cm. Thickness: 0,70 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	EN388 2121X EN374-5 EN374-5 JKLNPT J 2 > 30 mn N 3 > 60 mn K 6 > 480 mn P 6 > 480 mn L 4 > 120 mn T 6 > 480 mn	x 120

#### **TOUTRAVO VE511**





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Cotton knit gauge 10 Absorption of perspiration and moisture for improved comfort in everyday life







Neoprene Versatile and highly efficient material against heat, detergents, alcohols, chemicals, greases and hydrocarbons

**NEOCOLOR VE530** 









Neoprene/Latex blend -Comfort and flexibility for heavy work

comfort



# SYNTHETIC GLOVES **WORKS REQUIRING CHEMICAL RESISTANCE**

	R	o <sup>o</sup>	<b>UNIX</b>	<b>V</b>	
VENIZETTE VE920	Blue	Latex on interlock cotton lining. Length: 30 cm. Thickness: 1,25 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	EN388 4121X EN407 X1X XXX XXX EN374-5 EN374-1 TYPE A AKLMNPT A 2 > 30 mn K 6 > 480 mn N 3 > 60 mn L 4 > 120 mn P 6 > 480 mn M 6 > 480 mn T 6 > 480 mn	x 120
VENIFISH VE990	Orange				
LAT50	Green	Latex on interlock cotton lining. Rough textured palm and back. Length: 30 cm.	7/8 - 8/9 - 9/10 10/11	EN388 3121X EN407 EN374-5 A6 > 480 mn	
DPLAT50		Thickness: 1,80 mm.			x 60
VENIZETTI	E VE920				
	NS NI				
				Maximum abrasion performance	







➡Increased lifespan



Cut cotton interlock stitched ightarrow 
m Absorption of perspiration and moisture for improved comfort in everyday life



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	•	o <sup>C</sup>	<b>LUUR</b>	♥	Ŵ
SOFT-NIT VE470	Blue	Latex/ Nitrile, smooth chlorinated interior. Length: 30 cm. Thickness: 0.40 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	C C E EN388 2 011X TYPE B AKL A 2 > 30 mn K 6 > 480 mn L 2 > 30 mn	x 120















Chlorinated interior -Easy glove implementation -High comfort -Less risk of allergies







Thickness : 0.40 mm ➡Fine touch

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Blue colour Ideal in food environment due to its easy visual identification

Latex/Nitrile blend ➡Polyvalent



# - SYNTHETIC GLOVES WORKS IN INDUSTRY







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	Ø	e <sup>o</sup>	LUUS A	ا 🗸	Î
NITREX VE846	Green	Thin nitrile. Chlorinated smooth inside. Length: 46 cm. Thickness: 0,55 mm.	8/9 - 9/10 10/11	EN388 4 10 2 X EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-1 TYPE A AGJKLMNOPT A 3 > 60 mn N 4 > 120 mn G 2 > 30 mn 0 6 > 480 mn J 6 > 480 mn K 6 > 480 mn L 5 > 240 mn M 3 > 60 mn	x 36
NITREX VE830	Blue	Thin nitrile. Chlorinated smooth inside. Length: 33 cm. Thickness: 0,20 mm.	7/8 - 8/9 9/10 - 10/11	C C E EN388 2 0 0 1 X EN374-5 EN374-5 EN374-5 J 6 > 480 mn 0 2 > 30 mn K 6 > 480 mn 0 2 > 30 mn L 2 > 30 mn T 6 > 480 mn L 2 > 30 mn T 6 > 480 mn	x 120
NITREX VE801	Green	Nitrile with cotton flocklining. Length: 33 cm. Thickness: 0,40 mm.	07 / 08 / 09 / 10 / 11	EN388 3101X EN374-5 EN374-5 J 6 > 480 mn K 6 > 480 mn L 3 > 60 mn	







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# SYNTHETIC GLOVES **WORKS IN INDUSTRY**

	•	o <sup>o</sup>	<b>UNA</b>	ا 🛡	Û
LA600	Black	Reinforced latex. Chlorinated inside and outside. Length: 60 cm. Thickness: 1.15 mm.	10/11	EN388 4 1 2 1 X EN407 X 2 X X X X EN374-1 TYPE A AKLMN0PT A 6 > 480 mn N 5 > 240 mn x K 6 > 480 mn 0 3 > 60 mn L 4 > 120 mn P 6 > 480 mn M 6 > 480 mn T 6 > 480 mn	x 36
VENIPRO VE450			8/9 - 9/10 10/11	EN388 3121X EN374-1 TYPE A AKLMNOPT	
DPVE450	Orange	Heavy weight latex with cotton flock lining. Length: 30 cm. Thickness: 1 mm.	8/9 - 10/11	<b>C E</b> N374-5 <b>M</b> 6 × 480 mn N 4 > 240 mn x K 6 > 480 mn 0 3 > 60 mn L 5 > 120 mn P 6 > 480 mn M 6 > 480 mn T 6 > 480 mn	∢ 120
ALPHA VE905	Natural	Latex, chlorinated smooth inside. Length: 30 cm. Thickness: 0,40 mm.	6/7-7/8-8/9 9/10	EN388 0 0 1 0 X EN421 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-1 TYPE C KL K6 > 480 mn L 3 >60 mn	
VE440	Blue	Latex with cotton flock lining. Length: 32 cm. Thickness: 0,55 mm.		EN388 1010 X EN374-5 EN374-5 EN374-5 EN374-6 AKLMNPT A 2 > 30 mn K 6 > 480 mn N 2 > 30 mn L 3 > 60 mn P 6 > 480 mn M 5 > 240 mn T 6 > 480 mn	x 144



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N<sup>EI</sup>



#### **VENIPRO VE450**

18





Thickness : 1.00 mm ➡Suitable for heavy duty tasks





**VE440** 163 (M.M N.EI M Rough structure ⇒Improved object grip

> Flocked inside →Absorption of perspiration for comfort

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	æ	a <sup>o</sup>	<b>LIVIA</b>		Ŵ
NI170		Nitrile on cotton jersey lining. 6-cm canvas safety cuff. Ventilated back.	10		
N1175	Dive	Nitrile on cotton jersey lining. 6-cm canvas safety cuff. Fully coated.	09 / 10 / 11	EN388	• • • • •
N1150	Blue	Nitrile on cotton jersey lining. Knitted wrist. Ventilated back.	07 / 08 / 09 / 10	⇒ 3111X	v 100
NI155		Nitrile on cotton jersey lining. Knitted wrist. Fully coated.	10		X IZU
NI015	W II	Light nitrile on interlock cotton lining. Knitted wrist. Ventilated	07 / 08 / 09 10 / 11	[r_] EN388	
DPNI015	IO15	back.	10	2111X	





# - SYNTHETIC GLOVES

	R	o <sup>C</sup>	<b>LUUR</b>	<b>V</b>	
DUOCOLOR VE330	Blue-Yellow	Latex with cotton flock lining, double-dipped. Length: 30 cm. Thickness: 0,60 mm.	 6/7-7/8-8/9 9/10 С	EN388 1010 X EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-1 TYPE A AKLMNPT A 2 > 30 mn L 3 > 60 mn M 5 > 240 m N 2 > 30 mn M 5 > 240 m P 6 > 480 mi T 6 > 480 mi	n
ZEPHIR VE210	Pink	Latex with cotton flock lining. Length: 30 cm. Thickness: 0,38 mm.		C C E EN388 XX1XX EN374-5 EN374-5 KL K 6 > 480 mi L 3 > 60 mn	x 144
PICAFLOR VE240	Yellow	Latex with cotton flock lining. Length: 30 cm. Thickness: 0,38 mm.		EN388 1010 X EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-1 TYPE B KLMPT K 6 > 480 mi L 2 > 30 mn M 4 > 120 mi F 4 > 120 mi T 6 > 480 mi	1
VE200	• • • • •	Latex with cotton flock lining. Length: 30 cm. Thickness: 0,33 mm.		<b>R</b> "	

## **DUOCOLOR VE330**



## **PICAFLOR VE240**

(Ming)



### **ZEPHIR VE210**

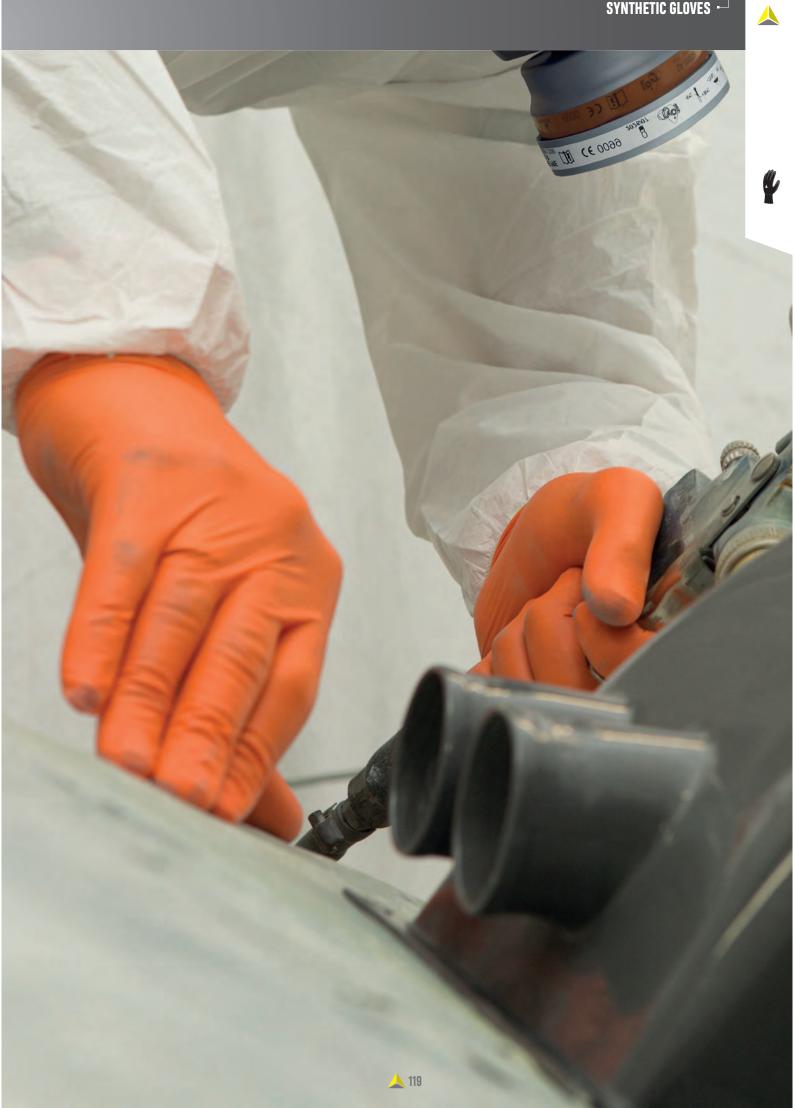




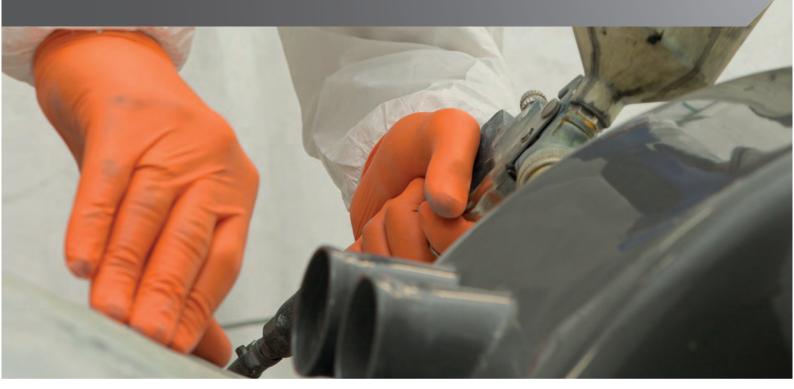
**VE200** 



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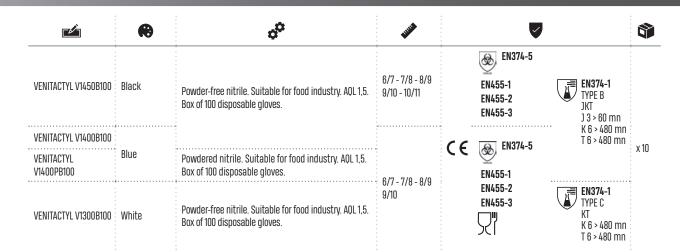


# SYNTHETIC GLOVES DISPOSABLE



		•	o <sup>C</sup>	ture .				
_	VENIPLUS V1500	Orange	Powder-free nitrile. AOL 1,5. Length: 27 cm. Thickness: 0,17 mm. Box of 50 disposable gloves.	7/8 - 8/9 - 9/10 10/11	CE	EN374-5 EN455-1 EN455-2 EN455-3	EN374-1 TYPE B KPT K 6 > 480 mn P 5 > 240 mn T 6 > 480 mn	





#### **VENITACTYL V1450B100**



<sup>r</sup>

### Powder-free gloves →Ideal for caterers VENITACTYL V1450B100 VENITACTYL V1400B100





**VENITACTYL V1400PB100** 

#### **VENITACTYL V1400B100**





# Blue colour →Ideal in food environment due to its easy visual identification VENITACTYL V1450B100 VENITACTYL V1400B100



Type B

➡ Protection from certain concentrated chemicals

Glove tested in accordance with EN ISO 371-1:2016 Powdered glove ⇒Easy glove implementation



#### **VENITACTYL V1300B100**









		¢ <sup>0</sup>	ture .		Î
VENIPLUS V1383	Blue	Powder-free latex, chlorinated inside. AQL 1,5. Length: 30 cm. Thickness: 0,25 mm. Box of 50 disposable gloves.	7/8 - 8/9 - 9/10 10/11	EN374-5         EN374-5           EN455-1         FN455-1           EN455-2         L2 > 30 mn           EN455-3         M 4 > 120 mn           F         F	x 10
<b>VENIPLUS V</b>	1383				
 Powder-free gloves				Glove tested in accordance with EN ISO 371-1:2	2016 :
←Protection from manipula objects	ated			Type B ➡ Protection from certain concentrated chemicals	• • • •
				Extra long and thick glove ➡Thickness: 0.25 mm ➡Longer lifespan and increased safety	
		<u></u> 122			

	•	o <sup>C</sup>	<b>LUUI</b>	♥	
VENITACTYL V1310		Powdered latex. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	EN374-5 EN374-1 TYPE C KT	
VENICLEAN V1340	Natural	Powder-free chlorinated latex. Suitable for food industry. AOL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9	EN455-1 K 2 > 30 mn EN455-2 T 6 > 480 mn EN455-3 EN455-3 EN455-3 EN455-3 EN455-3 EN455-3 EN455-3 EN455-3 EN455-1 EN455-1 EN455-1 EN455-2 EN455-3	x 10
VENITACTYL V1371	Transporant	Powdered vinyl. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9 9/10		
DPV1371	Transparent	Powdered vinyl. Suitable for food industry. AQL 1,5. Box of 10 disposable gloves.	7/8 - 9/10	XI	x 60

### **VENITACTYL V1310**









		SILCONE
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C ..... Chlorinated interior ⇒Easy glove implementation ⇒Less risk of allergies (latex proteins)



C .. . . . . . . . →Airtightness and water proofing
 →Flexibility, elasticity and tactility

Powder-free gloves →Protection from manipulated objects

VENITACTYL V1310 VENICLEAN V1340

Latex

## **VENITACTYL V1371**







Also available in a box of 10 gloves ⇒DPV1371



# LEATHER GLOVES HELP WITH CHOICE

## LEATHER GLOVES

AMERICAN ASSEMBLY

Side palm, middle and ring finger form a single piece that is sewn separately to the rest of the palm









Wing thumb

Docker type

Long wrist or cuff

Latex wrist with vein protection

#### FOURCHETTE ASSEMBLY

The thumb is sewn separately (thumb added). A strip of material is sewn between each finger (fourchette). The glove perfectly matches the shape of the hand.



Round thumb Gusset on fingers



Choy thumb

The benefits of Leather	Leather type	Abrasion	Durability	Flexibility	Price
<ul> <li>Light</li> <li>High breathability due to porous texture</li> <li>Price</li> <li>Good abrasion resistance</li> <li>Tends to become softer and more flexible after use</li> </ul>	Grain	5	3	4	**
•Good durability •Good insulation protection especially against heat	Grain	2	4	3	***
High puncture resistance	Split	2	4	2	*
• Good feel touch • Good abrasion and puncture resistance • Good flexibility • Good durability	Grain	3	4	4	***

## $^{-}$ Choose the best glove for cold environments

#### Extremely cold conditions

Very light activity levels or special applications requiring extra heat

#### • Very cold conditions

Levels of light activity where the wearer generates little body heat by activity



Fresh climate conditions when light heat is needed

# LEATHER GLOVES HANDLING IN COLD ENVIRONMENT

	R	o <sup>c</sup>	<b>LUUE</b>				
FBF50	Beige	Cowhide full grain leather with 3M Thinsulate™ lining. Clip fastener. American assembly.	09 / 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EN388 2132X	EN511 1 1 0	-
DCTHI	Brown-Red	Cowhide split leather with 3M Thinsulate™ lining. Canvas back with leather reinforcement. Canvas cuff.	10		EN388 3131X	EN511 1 2 X	x 60
FBF15	Yellow	Cowhide full grain leather with acrylic lining. Elasticated cuff on palm and lining which covers cuff edge. Clip fastener. American assembly.	08 / 10 / 11	CC	EN388 2132X	EN511 2 4 0	
DF132	Brown-Yellow	Cowhide split leather with lining. Canvas back with leather reinforcement. Elasticated knitted wrist.	10		EN388 3131X	EN511 1 2 X	x 120



## DCTHI





3M Thinsulate™ →Resistance to humidity and cold



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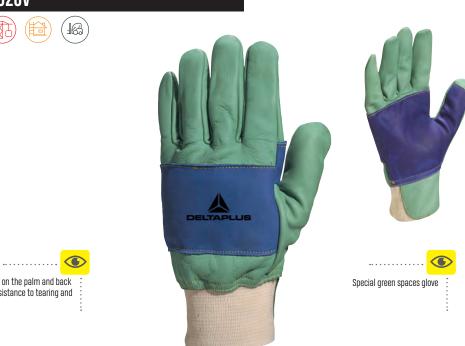
# -- LEATHER GLOVES HANDLING IN WET ENVIRONMENT



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	R	o <sup>C</sup>	LUUI A	<b>V</b>				
BUCH520V	Green-Blue	Water-repellent cowhide full grain leather. Palm, thumb and metacarpal in polyester foam. Kevlar® Technology sewn.	08 / 09 / 10 / 11	EN388 312 3 X		x 36		
FIB49	Beige	Water-repellent cowhide full grain leather. Reverse hide cowhide full grain leather palm.	09 / 10	<b>C E EN388</b> 3122X	EN420 4.2	v 120		
CBHV2	D. 45	Water-repellent cowhide full grain leather. American	08 / 09 / 10 / 11	ر و			4/4 ≥ 180 mn 🔅	x 120
DPCBHV2	Buff	assembly. Knitted wrist and vein protection.	08 / 10	2132X		x 60		





Polyester foam on the palm and back Increased resistance to tearing and

perforation





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# - LEATHER GLOVES GENERAL HANDLING

	•	o <sup>c</sup>	tille.	<b>V</b>	Û
FB149	Beige	Cowhide full grain leather. High quality leather. American assembly.	08 / 09 / 10	EN388 3122X	
50MAC	White	Lambskin full grain leather. Reinforced palm. Knitted open-work back.	08 / 09 / 10 / 11		
51FEDF	Notural	Goatskin full grain leather. American assembly. Full index. Knitted wrist and vein protection.	08 / 09 / 10	С Є <u>е</u> ензава 2111х	x 120
GFBLE	Natural	Cowhide full grain leather. American assembly. Knitted wrist and vein protection.	08 / 09 / 10 / 11	EN388 3122X	<ul> <li>a</li> <li>a</li> <li>b</li> <li>b</li> <li>c</li> <li>d</li> <li>d</li></ul>







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		o <sup>C</sup>	<b>LIVE</b>		Ŵ
DPCT502	Beige-Green	Cowhide split leather. Polyester canvas back. American assembly.	07 / 09	EN388 3121X	x 60
FBN49			07 / 08 / 09 / 10 / 11	EN388	x 120
DPFBN49	Natural	Cowhide full grain leather. American assembly.	10	₹ 3122X	x 60
FCN29		Cowhide grain leather palm. Full index. Cowhide split leather back. American assembly.	08 / 09 / 10 / 11	C E EN388 2121X	x 120
CT402	Natural-Blue	Goatskin full grain leather palm. Cotton jersey back. American	07 / 08 / 09 / sev back American 10 / 11		X IZU
DPCT402	Blue-White	assembly.	10	EN388 2111X	x 60
FP159	Beige	Pigskin full grain leather. American assembly. Full index. 09 / 10			x 120

## **DPCT502**

FBN49













FCN29









# - LEATHER GLOVES GENERAL HANDLING

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DS202RP	Grey-Blue	Cowhide split leather with cotton canvas lining. Reinforcement on palm, thumb and index. Canvas back with leather reinforcement. Reinforced canvas cuff.			
DC103	Doigo Now blue	Cowhide split leather. Canvas back with leather reinforcement.	10	CE EN388	x 120
DPDC103	Beige-Navy blue	Reinforced canvas cuff.			0 0 0 0 0 0

# DS202RP





## DC103









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# -- LEATHER GLOVES WELDERS WORKS

# Exceptional thermal results, a constant quality unmatched in its field thanks to the aluminised Preox made in France.



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	R	o <sup>C</sup>	<b>Line</b>	0 0 0 0 0 0	V		Û	
TER250	Brown-Grey	Heat-resistant cowhide split leather palm (HR). Wool fleece lining on palm. Cuff with canvas lining. Kevlar® Technology sewn. American assembly. 20 cm cuff. Length: 40 cm.	10	324	EN388 3243X	EN407	x 60	
TC716		High quality cowhide split leather. American assembly. 15 cm cuff. Length: 35 cm.	09 / 10 / 11		СС [] EN388	EN388 4122X	<b>EN12477</b> TYPE A	x 120
DPTC715	Grey	Cowhide split leather. 15 cm cuff. American assembly. Length: 35 cm.			₩ 4122X		00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
FC115		High quality cowhide full grain leather palm with full index. Cowhide split leather back and cuff. American assembly. 15 cm cuff. Length: 35 cm.	10	· · · · · · · · · · · · · · · · · · ·	EN388 2132X	EN407 412 X4X EN12477 TYPE B	x 60	

**TER250** 





of molten metal

#### 

THT treated heat resistant leather Decreased responsiveness to flames Increased resistance to contact heat due to its treatment High flexibility of the leather

Kevlar® thread stitching ➡Self-extinguishing









# - LEATHER GLOVES WELDERS WORKS

	•	o <sup>©</sup>	LUUI A	♥	Û
GFA115K	Grou	Lambskin full grain leather. Cowhide split leather cuff. Kevlar® Technology seams. Fourchette assembly. 15 cm cuff. Length: 35 cm.	10	EN388 2111X EN12477 TYPE B	x 120
TIG15K	Grey	Goatskin full grain leather. Cowhide split leather cuff. Kevlar® Technology sewn. American assembly. 15 cm cuff. Length: 35 cm.	08 / 09 / 10		x 36
CA615K	Ded	High quality heat-resistant split leather (HR). Cuff with canvas lining. Kevlar® Technology sewn. American assembly. Length: 35 cm.	10	EN388 3132X EN12477 EN12477 TYPE A	x 60
CA515R	Red	Heat-resistant cowhide split leather (HR). Hand with cotton fleece lining. Cuff with canvas lining. American assembly. Length: 35 cm.		IIFLA	



**CA615K** 











**CA515R** 



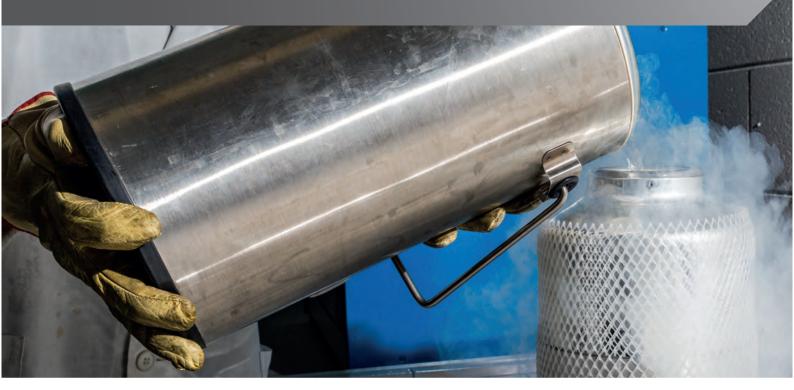




# - KNITTED GLOVES HANDLING REQUIRING CUT AND HEAT RESISTANCE



# -- LEATHER GLOVES HANDLING IN COLD ENVIRONMENT



	•	o <sup>0</sup>	<b>LIVE</b>		Û
CRYOG	Straw-coloured	Water-repellent cowhide full grain leather. Aluminized polyester insert. Cowhide split leather cuff. Hand and cuff in synthetic. American assembly. 20 cm cuff. Length: 40 cm.	10	C € EN388 22222X EN388 22222X EN511 2 3 X EN511 2 3 X EN511 2 3 X EN511 2 3 X EN511 2 3 X EN542 2 2 2 2 2 2 2 2 2 2 2 2 2	x 36









Water repellent leather ➡Good splash protection



Tested with liquid nitrogen using method MR019 ➡Work in all safety up to -196°C (a few seconds)



Velcro tape ➡Adjustable fit



Aluminised polyester Thermal protection







# L. KNITTED GLOVES

	•	o <sup>C</sup>	till the second s	<b>V</b>	Û
PM159		100% foam polyamid. 6-cm long knit wrist. Gauge 13. Ambidextrous.	07 / 09	[] EN388	
PM160	White	100% foam polyamid. 6-cm long knitted wrist. PVC dots on palm. Gauge 13.			v 000
TP169		Polycotton. PVC dots on palm. Gauge 7.		EN388 X12XX	x 300
CP149	Beige	Brushed drill cotton lining 270 g/m². PVC dots on palm and full thumb, index and little finger. French assembly.	08 / 10	Ce	•
C0131	Natural	Interlock cotton 100 g/m². Knitted wrist. Gauge 18. Ambidextrous.	07 / 09		v 600
COB40	White	Bleached cotton 180 g/m². Fourchette assembly.	06 / 07 / 08 / 09		x 600



PM159

(Ming)



CP149

COB40



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#### BUILDING AND CONSTRUCTION





**83** 



87

CONSTRUCTION DPVE730

DPVE730 8 - 10 **[] 102** 



9

**100** 



TOOL HANDLING DPFBN49

10 1**29** 



WELDING DPTC715 10

#### MULTI PURPOSE

9

78



#### OUTSIDE WORKS



#### SECOND WORK







**129** 



DPVV733JA

9

EXTRA COMFORT



EXTRA GRIP

DPVE727 7 - 9 **90** 



WET ENVIRONMENT

DPVE712GR

9

**91** 

GREASE AND FUEL

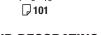
DPPVC7327 10















FORESTER

DPCBHV2 8 - 10

GARDEN MAINTENANCE

DPCT502 7 - 9



LIGHT HANDLING DPDC103 10

**130** 

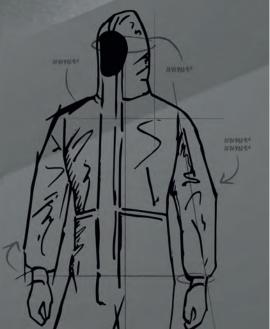
OUTSIDE WORKS

DPNI015 10 **117** 





# DESIGNING MANUFACTURING YOUR SAFETY AT WORK



# **DISPOSABLE WEAR**

## 142 • HELP WITH CHOICE

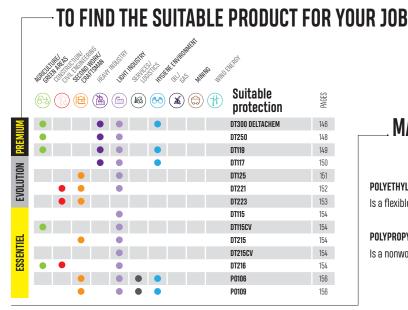
- 146 Chemical protection overalls
- 156 Overalls Coats Aprons Headwear
- 158 Masks Sleeves Overshoes

399 • TECHNICAL INFORMATION

**JISPOSABLE WEAR** 



# **DISPOSABLE WEAR HELP WITH CHOICE**



## MATERIALS

#### **POLYETHYLENE (PE)**

Is a flexible plastic fibre which provides good chemical resistances.

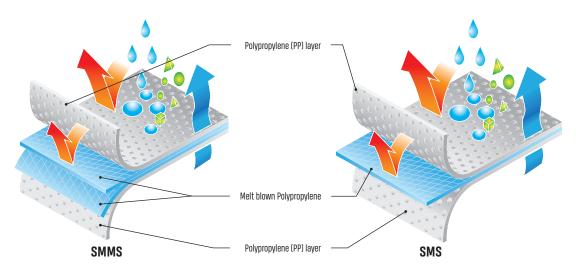
#### POLYPROPYLENE (PP)

Is a nonwoven breathable fibre which provides excellent comfort.

#### SMS/SMMS

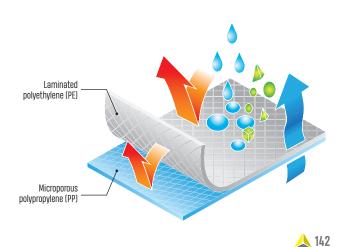
#### POLYPROPYLENE - MELT BLOWN POLYPROPYLENE - POLYPROPYLENE - DT2XX

The combination of the three polypropylene (PP) layers provides exceptional protection and provides a breathable non-woven fabric. The melt blown is incorporated with warm air to form a chemical barrier. The other two layers make the combination flexible and breathable.



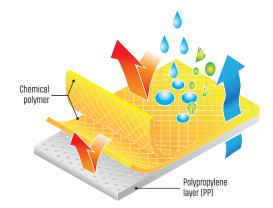
#### LAMINATED MICROPOROUS MATERIAL - DT1XX

The combination of a polypropylene (PP) layer and a Polyethylene layer (PE) ensures outstanding properties and excellent protection against most chemical products and particles. The non-woven fabric is very resistant and lint free.



#### **DELTACHEM POLYPROPYLENE + CHEMICAL BARRIER - DT3XX**

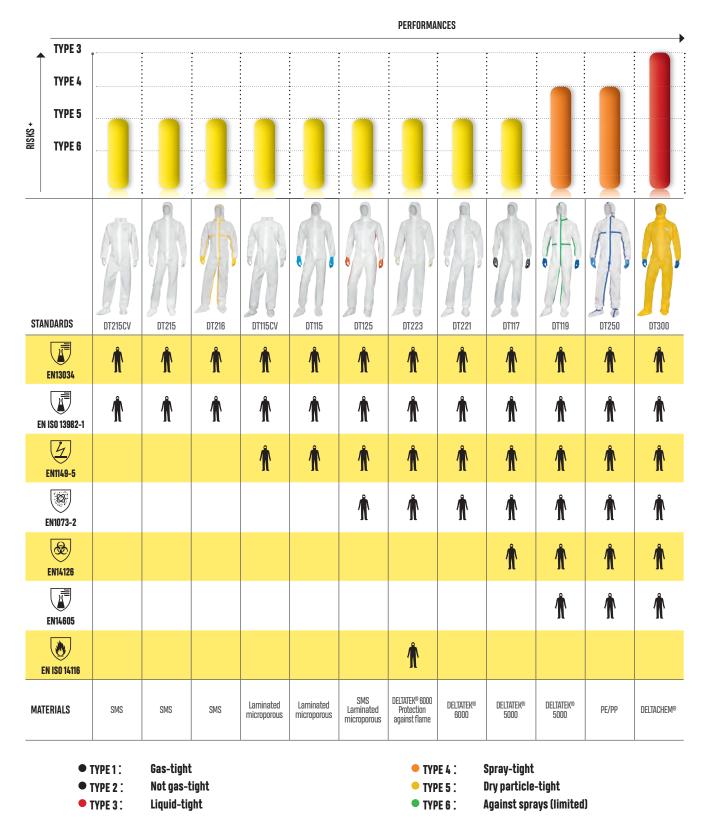
The combination of several high performance polymer layers (chemical barrier) combines with several polypropylene (PP) layers, provides exceptional protection and ensures a non-woven breathable fabric. The polypropylene (PP) with the chemical barrier ensure flexible and comfort in extreme conditions





# PERFORMANCES

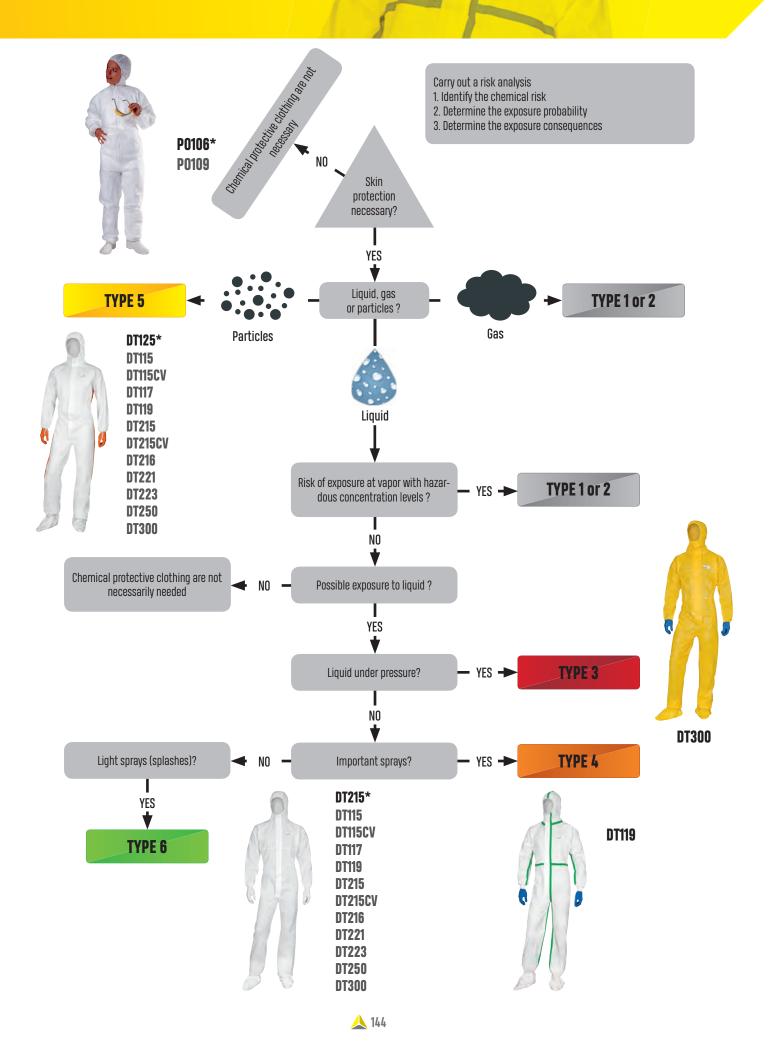
What performance to choose according to your needs?

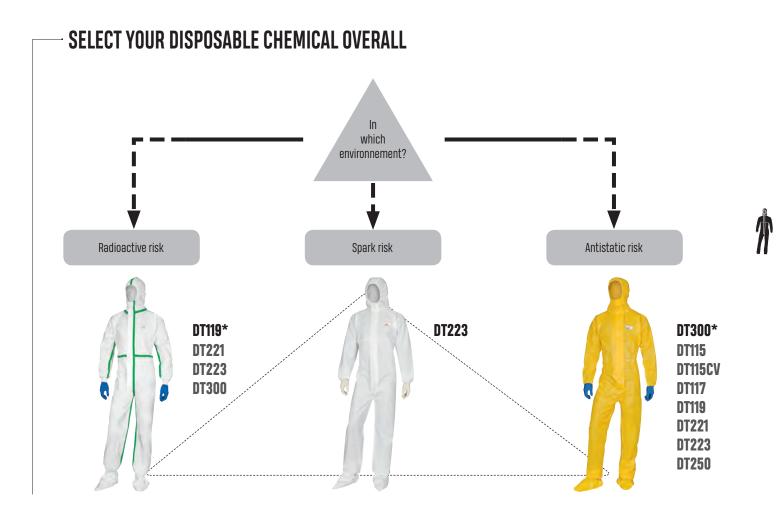


This list is not contractual. It is an indicative list and in no way incurs the liability of DELTA PLUS.

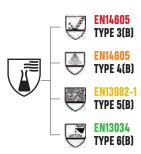
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# DISPOSABLE WEAR HELP WITH CHOICE





### **STANDARDS**



Protective clothing against liquid chemicals (sprays).

Protective clothing against liquid chemicals (mists).

Protective clothing for use against solid particles (dust - asbestos).

Protective clothing against liquid chemicals (splashes).

	EN14126	Protective clothing against infective agents.
	EN1073-2	Protective clothing against radioactive contamination.
4	EN1149-5	Protective clothing to dissipate static electricity.
۲	EN ISO 14116	Protective clothing against heat and flame.

	EXAMPLES OF APPLICATIONS	
Applications	Risks	Level of protection
Work Maintenance	Fouling	Category I/Non PPE
Industrial cleaning	Exposure to hazardous chemical substances and particles	TYPE 6 TYPE 5
Asbestos abatement / removal (dust > 1 micron)	Contact with particles or fibres	TYPE 5
Agriculture and horticulture (Handling of herbicides / pesticides / fungicides / fertilizers )	Contact with harmful elements	TYPE 4
Paint spraying (Solvents)	Contact with low-concentrate aerosols	TYPE 4
Paint spraying (Preparation / Mixing)	Contact with high concentrate aerosols	TYPE 3
Laboratories / Chemical Industries	Projection of chemical products	TYPE 3
Emergency / Rescue Personnel	Bacteriological contamination	TYPE 4-B Type 3-B



- DISPOSABLE WEAR CHEMICAL PROTECTION OVERALLS DELTACHEM<sup>®</sup>

		o <sup>¢</sup>	<b>UUUS</b>		
DT300 DELTACHEM		Overall with three-sided elasticated hood. Non woven Deltachem®. Zip Fastening under double flap. Double elastic for thumb. Elasticated around the head, waist, cuffs and ankles. Individual airtight pack.	M/L/XL/XXL	EN14605 TYPE 3B TYPE 4B EN ISO 13982-1 TYPE 5B EN1073-2 CLASS 1 EN14126 EN1073-2 CLASS 1 EN149-5 EN149-5	x 20
DT301 DELTACHEM	Yellow	Overboots. Non-woven DELTACHEM®. Non-slip sole. Elastic on top and tightening link. Sealed seams. Bag of 1 pair.	One size	C C E EN14605 TYPE PB3-B TYPE PB4-B EN14126 EN14126	x 50
DT302 DELTACHEM		Sleeve. Non-woven DELTACHEM®. Elasticated on both ends. Sealed seams. Bag of 1 pair.		EN14605 TYPE PB3B EN14126 EN14126	
	inst	DELTACHEM® No risk of lint		Apart hod Supports head mr increased comfort Waterproof searns - Decontamination Converse - Tatal water-proof	work
<ul> <li>∠</li> <li>∠</li> <li>↓</li> <li>↓</li></ul>	ACHEM M M M M M M M M M M M M M			Double thumb loops - Good hold of the g	



# - DISPOSABLE WEAR CHEMICAL PROTECTION OVERALLS

		o <sup>o</sup>	<b>U</b>	<b>V</b>		Î
DT250	White	Overall with integrated feet with non-slip soles and elasticated hood. PE/PP non woven. Fastening with zip under flap. Elasticated around the head, waist, cuffs and ankles. Individual airtight pack.	M/L/XL/XXL/3XL	EN14605 TYPE 4B C C F FINIC 13982-1 TYPE 5B EN13034 TYPE 6B	EN14126 EN1073-2 CLASS 1 EN1149-5	x 20
	DONE X Not seams tamination work				Closure with chin s s -Very good suppor reinforced protectionDuble thumb loop - Very good supporDuble thumb loop - Very good supporAthesive tape to ca a glove - Total water-proof	t and on s t

		¢ <sup>0</sup>	tillite and the second s		Û
DT119	White	Overall with elasticated hood. Non-woven microporous laminate Deltatek® 5000. Fastening with zip under adhesive flap (top and bottom opening). Elasticated waist and ankles. Knitted wrist. Antistatic. Individual airtight pack.	M/L/XL/XXL	C C E EN14605 TYPE 4B EN14126 EN1405 TYPE 4B EN14126 EN1073-2 CLASS 1 EN1073-2 CLASS 1 EN103034 TYPE 6B EN14126 EN1073-2 CLASS 1 EN14126	x 20









DELTATEK® 5000 Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)





Microporous laminate No risk of lint Very soft

	D							
Waterproof seams ➡Decontamination work								
	:							





Supports head movement for increased comfort



flap →Very good seal



Ribbed cuffs Good hold of the glove on the hand

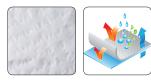


Elasticated ankles

DISPOSABLE WEAR CHEMICAL PROTECTION OVERALLS DELTATEK® 5000







DELTATEK® 5000

←Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)





Microporous laminate ➡No risk of lint ➡Very soft





3-part hood ➡Supports head movement for increased comfort



flap ➡Very good seal



Ribbed cuffs ➡Good hold of the glove on the hand



Elasticated ankles

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	R	a <sup>o</sup>	<b>LIUIS</b>	♥	Î
DT125	White-orange	Non-woven overall with three-sided elasticated hood. Made in 2 materials: laminated microporous and SMS. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Individual pack.	M/L/XL/ XXL/3XL	C C E EN ISO 13982-1 TYPE 5 EN ISO 13982-1 TYPE 5 EN1073-2 CLASS 1 EN1073-2 CLASS 1 EN1073-2 CLASS 1 EN1073-2 CLASS 1 EN1073-2 CLASS 1 EN1073-2 CLASS 1 EN1049-5 EN1149-5 EN1049-5	x 50





## DELTATek 5000





DELTATEK® 5000 Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)



SMS and Microporous Laminate Association • Optimum comfort • Cooler due to the ventilated back







3-part hood Supports head movement for increased comfort



Crotch reinforcement Increased resistance to tearing



Thumb loop ➡Good support

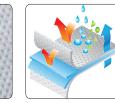


- DISPOSABLE WEAR CHEMICAL PROTECTION OVERALLS DELTATEK® 6000

	R	o <sup>c</sup>	<b>U</b> UU	♥	Û
DT221	White	Overall with elasticated hood. SMMS non-woven Deltatek® 6000. Fastening with zip under adhesive flap (top and bottom opening). Elasticated round head, waist and ankles. Knitted wrist. Antistatic. Individual airtight pack.	M/L/XL/XXL	<b>EN ISO 13982-1</b> TYPE 5 <b>C C</b> <b>EN1073-2</b> CLASS 1 <b>EN1073-2</b> CLASS 1 <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1073-2</b> <b>EN1075-2</b> <b>EN1075-2</b> <b>EN1075-2</b> <b>EN1075-2</b> <b>EN1075-2</b> <b>EN1075-2</b> <b>EN1075-2</b> <b>EN1075-2</b>	







DELTATEK® 6000 ~100% polypropylene SMMS\* \*Spunbound Nonwoven (x1), Melt Blown (x2), Spunbound (x1) The SMMS\* process provides better product breathability



SMMS ➡Breathable





3-part hood Supports head movement for increased comfort



Closure with self-adhesive flap ➡Very good seal



Ribbed cuffs Good hold of the glove on the hand

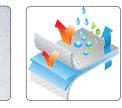


Elasticated ankles

	R	o <sup>c</sup>	till	▼	Û
DT223	White	Overall with three-sided elasticated hood. Non-woven SMMS Deltatek® 6000. Flame retardant material. Fastening with zip under flap. Elasticated around the head, waist, cuffs and ankles. Individual airtight pack.	M/L/XL/XXL/3XL	C C E EN ISO 13982-1 TYPE 5 EN ISO 13982-1 TYPE 5 EN ISO 1419-5 EN ISO 1419-5 EN ISO 14116 Index 1 EN ISO 14116 Index 1	x 20







DELTATEK® 6000

\*Spunbound Nonwoven (x1), Melt Blown (x2), Spunbound (x1) The SMMS\* process provides better product breathability



SMMS ➡Breathable

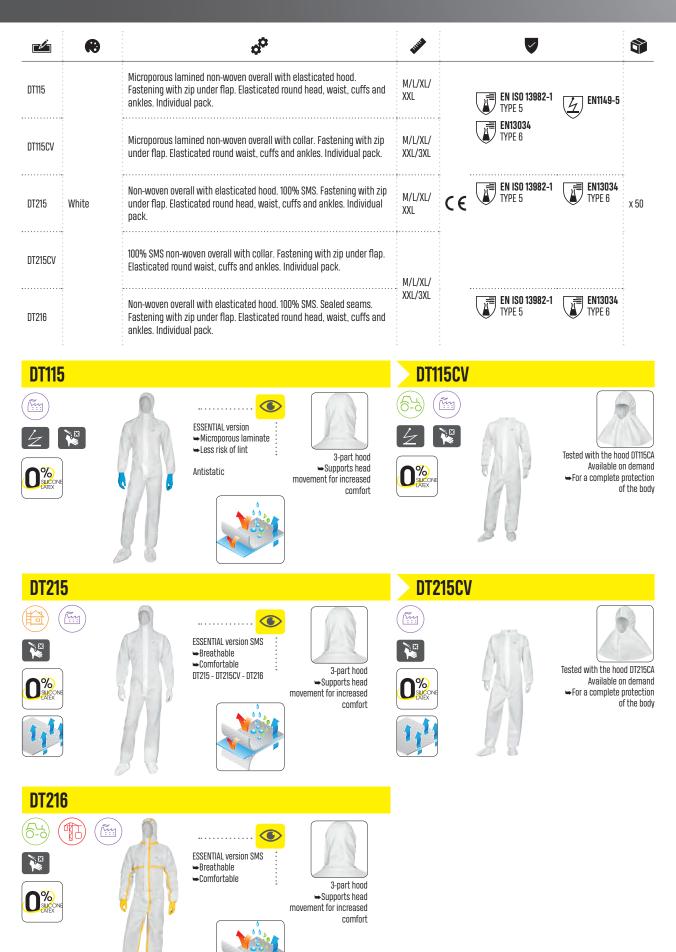




3-part hood Supports head movement for increased comfort

Tested according standard EN ISO14 ➡Protection agai flames	116

## DISPOSABLE WEAR CHEMICAL PROTECTION OVERALLS TYPE 5 - TYPE 6





# **DISPOSABLE WEAR OVERALLS - COATS - APRONS - HEADWEAR**

	•	రీ	<b>LIVE</b>	<b>V</b>	Î
P0106		Overall with elasticated hood. Non-woven polypropylene 35 g/m². Zip fastening. Elasticated waist, ankles and cuffs. Suitable for food industry. Individual pack.	M/L/XL/XXL	<b>(</b> € 兄"	x 50
BLOUSPE	White	Coat for visitors. Polyethylene 18 µm. Fastening with 3 press studs. Shirt collar. Raglan sleeves. Dispenser box of 100 pieces.			x 5
TABPO02		One : Apron. Polyethylene 20 µ. Dimensions: 120 x 70 cm. Bag of 100 pieces.			v 10
TABPOO4		Apron. Polyethylene 40 µ. Dimensions: 120 x 70 cm. Bag of 50 pieces.			x 10
P0109	Blue	Blue Blue Elasticated cuffs. Individual pack.		CE	
BLOUSPO	White	Coat. Non-woven polypropylene 35 g/m <sup>2</sup> . Fastening with 4 press studs. Shirt collar. Made-up sleeves. 2 patched low pockets. Suitable for food industry. Individual pack.	M/L/XL/XXL	۲ <b>۳</b>	x 50

P0106 (Ming) P0109 (Fire





# TABP002





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P0111	White	Accordion pleating mobcap. Non-woven polypropylene 10 g/m <sup>2</sup> . Elasticated border. Dispenser box of 100 pieces.		
P0110	White	White Round mobcap. Non-woven polypropylene 10 g/m². Elasticated border. 53 cm in diameter.		* * * *
	Blue	Dispenser box of 100 pieces.	One size	x 10
P0112		Mobcap with peak. Non-woven polypropylene 10 g/m². Box of 100 pieces.		
P0115	White	Chin/beard protector. Non-woven polypropylene 10 g/m². Elasticated for a good fit. Dispenser box of 100 pieces.		
TOQUE	•	Adjustable pleated hat. Extra-white crepe paper, 80 g/m². Height: 25 cm. Bag of 10 pieces.		x 25





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· DISPOSABLE WEAR MASKS – SLEEVES – OVERSHOES

		o <sup>¢</sup>	<b>UNITE</b>	♥	Î
MASQU	White	Hygiene masks. Non-woven polypropylene 160 g/m². Elasticated straps and nose clip. Box of 50 masks.			v 90
MASQUV	0	Hygiene mask, medical type, 3 pleats. Non-woven polypropylene 58 g/m². Tie and nose clip. Box of 50 masks.			x 20
MASQUG	Green	Hygiene mask, medical type, 3 pleats. Non-woven polypropylene 62 g/m². Elastic tie and nose clip. Box of 50 masks.			x 40
MANCHBL	White	Sleeve. Polyethylene 21 µm. Suitable for food industry. Elasticated on both ends.	One size	<b></b>	x 20
MANCHBE	Blue	Dimensions: 40 x 20 cm. Bag of 100 pieces.	0 9 9 9 9 9 9	۲î	X ZU
DT302 DELTACHEM	Yellow	Sleeve. Non-woven DELTACHEM®. Elasticated on both ends. Sealed seams. Bag of 1 pair.		C C C C C EN14605 EN14605 TYPE PB3B EN14126 EN1149-5	x 50







DT302 DELTACHEM	



MANCHBL



MANCHBE



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DT111	White	Overboots. Non-woven microporous laminate Deltatek® 5000. Elastic and tie on top. Bag of 10 pairs.	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0		
SURCHPLUS	Blue-White	Overshoes. Non-woven polypropylene, 8,8 g/m². Polyethylene 120 µ. Waterproof plasticized sole. Elasticated ankle. Bag of 50 pairs.		· · · · · · · · · · · · · · · · · · ·		x 5
SURCHPE	Blue	Visitor overshoes. Polyethylene 25 µm. Elasticated ankle. Bag of 50 pairs.				x 20
SURCHPO	White	Overshoes. Non-woven polypropylene 40 g/m². Elasticated ankle. Dimensions: 35 x 17 cm. Bag of 50 pairs.	One size			x 10
KITVI		Kit for visitor: 1 polyethylene overall Ref. BLOUSPE). 1 accordion pleating mobcap (Ref. PO111). 1 two-pleats paper mask (Ref. MASQU2). 1 polyethylene pair of overshoes (Ref. SURCHPE). Box of 100 kits.	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0		x 4
DT301 DELTACHEM	Yellow	Overboots. Non-woven DELTACHEM®. Non-slip sole. Elastic on top and tightening link. Sealed seams. Bag of 1 pair.		CE	EN14605 TYPE PB3-B TYPE PB4-B EN14126 EN1149-5	x 50













# DESIGNING MANUFACTURING YOUR SAFETY AT WORK

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# **WORK WEAR**

163 • HELP WITH CHOICE

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**NORK WEAR** 



# WORK WEAR HELP WITH CHOICE

# - TO FIND THE SUITABLE PRODUCT FOR YOUR JOB

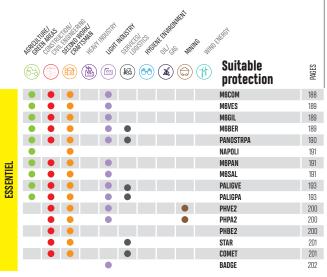
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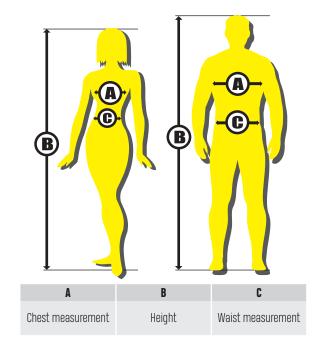


## •**SIZES** Order the right size by taking the correct measurements

To take the correct measurements, take the measurements directly on the body, without tightenning.

#### ► I.E.:

- The measurements outlined in the tables are for the **body**, not the garment.
- For wearing a garment over another, the width required is provided.



#### SIZE EQUIVALENCE TABLE

MA Fem/		XS S	S M	M	L XL	XL XXL	XXL -	3XL -
							]	
MALE	B	<b>XS</b> 156/164	<b>S</b> 156/164	<b>M</b> 164/172	<b>L</b> 172/180	<b>XL</b> 180/188	<b>XXL</b> 188/196	<b>3XL</b> 196/204
	EU	42/44	44/46	48/50	52/54	56/58	60/62	64/66
JACKET / BOMBER / Bodywarmer / Overall	IT	36/38	38/40	42/44	46/48	50/52	54/56	58/60
UVERALL	DE	46/48	48/50	52/54	56/58	60/62	64/66	68/70
Chest measurement	cm	78/86	86/94	94/102	102/110	110/118	118/129	129/141
(A)	inch	321/2/34	34/37	37/40	40/43	43/461/2	461/2/501/2	501/2/551/2
TROUSERS /	EU	32/34	34/36	38/40	42/44	46/48	50/52	54/56
DUNGAREES	IT/DE	36/38	38/40	42/44	46/48	50/52	54/56	58/60
Waist measurement	cm	58/66	66/74	74/82	82/90	90/98	98/106	106/117
(C)	inch	23/26	26/29	29/32	32/35 <sup>1/2</sup>	351/2/381/2	381/2/411/2	411/2/46
TEE-SHIRT (A)	cm	76/79	80/88	89/97	98/106	107/115	116/124	125/133



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### - WORK WEAR MACH ORIGINALS

	R	o <sup>o</sup>	#	<b>Line</b>	<b>V</b>	Î
MOGI2	Grey	Vest. Bias finishing. 10 pockets including 2 inner.	Canvas 97% cotton 3% elastane 290 g/m². Yokes : Cordura®	o /m/i /vi /vvi /ovi	"	v 10
MOPA2	Navy blue	Trousers. Inside adjustable waist with elastic and buttons. 12 pockets.	Cordura®.	5/M/L/XL/XXL/3XL	נפ	X IU





Fixed badge holder included MOGI2 - MOPA2









Mesh insert on the back for ventilation ➡Increased breathability for better evacuation of perspiration



Large pocket on the back The necessary tools always at hand









Decorative retro-reflective piping on the front and back MOGI2 - MOPA2



Kneepad pockets Allows you to insert M2GEN kneepads to work more comfortably on your knees









Fleece lined kidney protector Perfect protection of the lower back against the cold Increased comfort





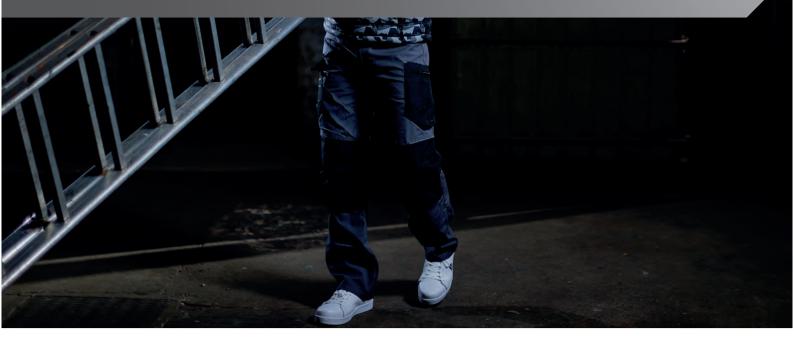












Ĺ	R	¢ <sup>0</sup>	#	<b>LIJIB</b>	♥	Î
M5PA2	Beige-Black Grey-Black	Trousers. Elasticated waist on both sides. Preformed knees. 8 pockets including 1 ruler.	Canvas 60% cotton 40% polyester 270 g/m². Yokes: Cordura® and Oxford polyester.	S/M/L/XL/XXL/3XL	CE	x 10





MAPOC removable pockets sold separately The necessary tools always at hand







# The M5V2 range is highly resistant thanks to its triple seams and Cordura<sup>®</sup> reinforcements.



Triple seams ➡Increased lifespan



Fixed badge holder included



Covered zips



⇒Increased lifespan



Tool holder pocket The necessary tools always at hand



Cordura® kneepad pockets ➡Allows you to insert M2GEN kneepads to work more comfortably on your knees



Retro-reflective piping (front and back)



Using Cordura® and triple seams to improve product life.





We have developed the M5 range to meet the needs of demanding customers and to enable intensive use of the product. That's why we chose a heavy cotton majority fabric to lend comfort and durability. The Cordura®, highly resistant to abrasion, is positioned on areas of high wear such as knees and forearms for maximum durability.

Laurent Kostrzewa, Body Protection Product Expert

# WORK WEAR MACH 5

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M5C02	Beige-Black Grey-Black	Overalls. Fastening zip under storm flap with Velcro strap (top and bottom opening). Elasticated waist. Underarm ventilation eyelets. Preformed elbows. 11 pockets including 1 ruler.	ts. Preformed		CE	v 10
M5SA2	Grey-Black	Dungarees. Fastening zip under flap (top and bottom opening). Elasticated waist on both sides. Adjustable elasticated braces. Preformed knees. 10 pockets including 1 ruler.	Cordura® and Oxford polyester.	S/M/L/XL/ XXL/3XL		X IU

#### M5C02





Triple seams ➡Increased lifespan M5C02 - M5PA2 - M5BE2



Retro-reflective piping (front and back) M5VE2 - M5PA2 - M5CO2 -M5SA2 - M5GI2



Covered zips M5VE2 - M5PA2 - M5CO2 -M5SA2 - M5GI2 - M5BE2



Cordura® kneepad pockets →Allows you to insert M26EN kneepads to work more comfortably on your knees M5PA2 - M5C02 - M5SA2



Fixed badge holder included M5VE2 - M5PA2 - M5CO2 -M5SA2 - M5GI2 - M5BE2



Tool holder pocket The necessary tools always at hand M5PA2 - M5C02 - M5SA2 -M5BE2



Reinforcement ➡Increased lifespan M5PA2 - M5CO2 - M5SA2











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M5VE2	Beige-Black Grey-Black	Jacket. Fastening with zip under velcro storm flap. Elasticated waist on both sides. Underarm ventilation eyelets. 9 pockets including 2 inner.	Canvas 60% cotton 40% polyester 270 g/m². Yokes: Cordura® and Oxford polyester.			
M5BE2	Beige Black	Bermuda. Elasticated waist on both sides. 8 pockets including 1 ruler.	Canvas 60% cotton 40% polyester 270 g/m².	S/M/L/XL/XXL/3XL	CE	x 10
M5GI2	Beige-Black Grey-Black	Vest. Zip fastening under bias. Elasticated waist on both sides. 9 pockets including 2 inner.	Canvas 60% cotton 40% polyester 270 g/m². Yokes: Oxford polyester			

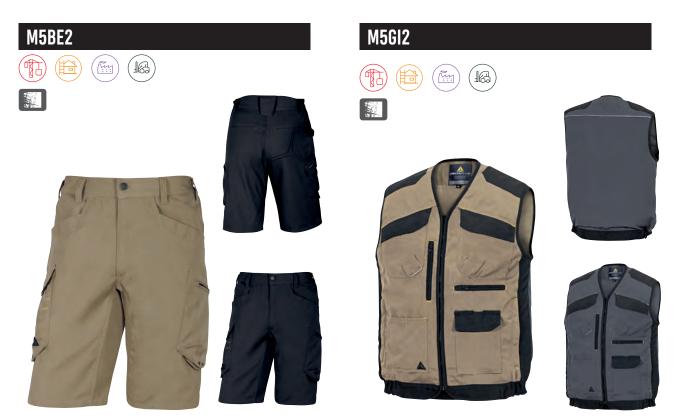




Cordura® reinforcement →Increased lifespan →Very good resistance to abrasion





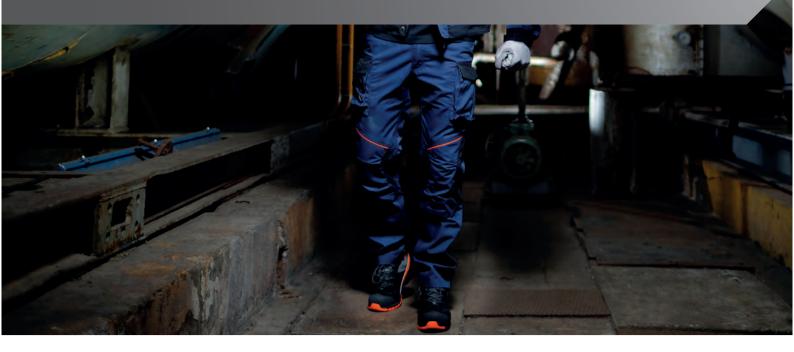


## - WORK WEAR MACH 2 CORPORATE





### - WORK WEAR MACH 2 CORPORATE



	•	o <sup>¢</sup>	#	tur		Ŷ
MCPA2	Grey-Black Navy blue-Black Light grey-DarK grey	Trousers. Elasticated waist on both sides. Preformed knees. Reinforced crotch. 13 pockets including 1 ruler.	Canvas 65% polyester 35% cotton Ripstop 260 g/m².	S/M/L/XL/XXL/3XL	CE	x 10

MCPA2

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MAPOC removable pockets sold separately





# The new Mach Corporate range meets the expectations of today's demanding professionals thanks to its many pockets and the Ripstop fabric used.



Triple seams ➡Increased lifespan



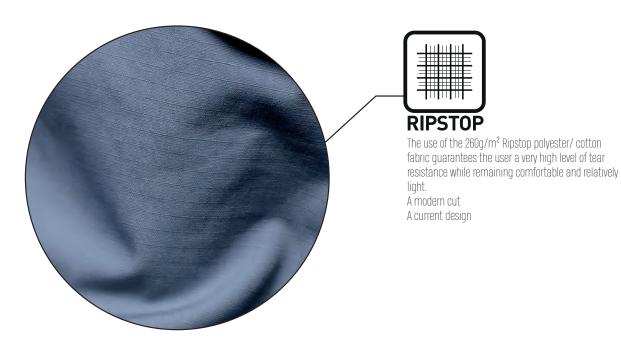
Kneepad pockets Allows you to insert M2GEN kneepads to work more comfortably on your knees



Retro-reflective piping (front and back)



Fixed badge holder included



We took inspiration from current trends to develop the new Mach Corporate range. Ripstop fabric improves tear strength. Heavier, it significantly increases the life of the product. The many functional pockets are a real advantage to always have the necessary tools at hand. The 3 colours available and the decline of design on winter products make the Mach Corporate a usable range throughout the year.

Laurent Kostrzewa, Body Protection Product Expert

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#### - WORK WEAR MACH 2 CORPORATE

	R	o <sup>o</sup>	#	tillite	<b>V</b>	Ŷ
MCVE2	Grey-Black Navy blue-Black Light grey-DarK grey	Jacket. Fastening with zip under velcro storm flap. Elasticated cuffs adjustable with Velcro. 9 pockets including 1 zipped.	Canvas 65% polyester 35% cotton Ripstop 260 g/m².		- - - - - - - - - - - - - - - - - - -	
MCCO2	Grey-Black	Overalls. Elasticated waist at the back. 11 pockets including 1 ruler.	Canvas 65% polyester	S/M/L/XL/XXL/3XL	CE	x 10
MCSA2	Grey-Black Navy blue-Black Light grey-DarK grey	Dungarees. Adjustable elasticated braces. 9 pockets including 1 ruler.	35% cotton Ripstop 260 g/m².			0 0 0 0 0 0 0 0 0 0 0 0 0 0







Triple seams ➡Increased lifespan



Fixed badge holder included



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MCCDZ		Overalls with 2 zips. Adjustable elasticated waist at the back, through velcro band at the front Adjustable bottom of legs with velcro band. 7 pockets. 2 Hand slits.	Twill 65% polyester 35%	S/M/L/XL/XXL/3XL	~ ~	
мссом	Beige-Grey	Overalls. Elasticated waist at the back. 8 pockets including 1 ruler. 2 Hand slits.	cotton 245 g/m².	5/M/L/XL/XXL/3XL	ננ	X IU













Buttock reinforcement Increased lifespan MCCOM

Eyelets under arms Gusset at the back increased breathability for better evacuation of perspiration

Kneepad pockets Allows you to insert M2GEN kneepads to work more comfortably on your knees MCCDZ - MCCOM







### · WORK WEAR D-MACH



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#### - WORK WEAR **D-MACH**

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DMACHCOM	Black-Red Grev-Yellow	Overalls. Elasticated waist. Fastening with zip under bias (top and bottom opening). 9 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m².	S/M/L/XL/XXL/3XL	~ ~	v 10
DMACHSAL	Grey-Orange	Dungarees. Adjustable elasticated braces. 8 pockets including 1 ruler.			נכ	XIU

#### DMACHCOM





Smocked back ⇒Easy to put on ⇒Freedom of movement



Tool holder pocket ➡The necessary tools always at hand DMACHCOM - DMACHPAN -DMACHSAL





**DMACHSAL** 

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Jean style pockets DMPAN - DMSAL - DMCOM



⇒Increased lifespan



Kneepad pockets ←Allows you to insert M2GEN kneepads to work more comfortably on your knees DMCOM - DMPAN - DMSAL





Lower trousers reinforced with anti-dirt coating DMACHCOM - DMACHPAN - DMACHSAL





Button closure on the waist



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DMACHVES	Black-Red Grey-Yellow Grey-Orange	Jacket. Cuffs with press studs fastening. 4 pockets.				- - - - - - - -
DMACHGIL	Grey-Yellow	Vest. Zip fastening under bias. 5 pockets.	Twill 65%	S/M/L/XL/XXL/3XL		
DMACHPAN	Black-Red Grey-Yellow Grey-Orange	Trousers. Elasticated waist on both sides. 6 pockets including 1 ruler.	polyester 35% cotton 245 g/m².		CE	x 10
DMACHBER	Black-Red Grey-Yellow	Bermuda. Elasticated waist on both sides. 6 pockets.	•		0 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0

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Badge holder location

#### **DMACHVES**

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Inner pocket The necessary tools always at hand













#### DMACHGIL















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#### - WORK WEAR MACH 2

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M2SA2	Grey-Orange	Dungarees. Adjustable elasticated braces. 8 pockets including 1 ruler.		€ S/M/L/XL/XXL/3XL	2 2 8 8 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
M2C02	Navy blue-Royal blue Black-Grey	Overalls. Zip fastening under bias. Elasticated waist. Elasticated cuffs. 10 pockets including 1 on the sleeve and 1 ruler.	Twill 65% polyester 35% cotton 245 g/m².		CE	x 10
M2CZ2	Grey-Orange Navy blue-Royal blue Green-Black	Overalls with 2 zips. Elasticated waist. 10 pockets including 1 ruler.			*	





Decorative retro-reflective piping on the back M2CO2 - M2CZ2 - M2VE2 - M2PA2



Fixed badge holder included M2CO2 - M2CZ2 - M2VE2 - M2PA2 -M2SA2 - M2GI2 - M2BE2



Triple seams ➡Increased lifespan M2CO2 - M2CZ2 - M2PA2 - M2SA2 - M2BE2



Waist adjustable with buttons ➡Elasticated back waist ➡Freedom of movement and optimised comfort



Kneepad pockets Allows you to insert M2GEN kneepads to work more comfortably on your knees M2C02 - M2PA2 - M2SA2







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M2VE2	Grey-Orange Navy blue-Royal blue Black-Grey	Jacket. Elasticated cuffs adjustable with Velcro. 5 pockets including 1 zipped and 1 inside.		o IM /I IVI IVVI IOVI		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
M2GI2	Grey-Orange Navy blue-Royal blue Green-Black	Multipocket vest. Bias finishing. 10 pockets.	Twill CEO( polypotor	S/M/L/XL/XXL/3XL		0 0 0 0 0 0 0 0 0 0 0 0 0 0
M2PA2	Grey-Orange Navy blue-Royal blue Black-Grey Green-Black	Trousers. Elasticated waist on both sides. 7 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m².	XS/S/M/L/XL/ XXL/3XL	CE	x 10
M2BE2	Grey-Orange Navy blue-Royal blue Green-Black	Bermuda. Elasticated waist on both sides. 7 pockets including 1 ruler.		S/M/L/XL/XXL/3XL	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0



#### **M2GI2**



Large pocket on the back ➡The necessary tools always at hand





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#### M2PA2 H 6-6

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#### - WORK WEAR PANOSTYLE

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месом	Grey-Green Navy blue-Orange Grey-Orange Brown-Green	Overalls. Front zip fastening with bias finishing. Elasticated waist. Elasticated cuffs. 7 pockets.	asticated waist. Elasticated cuffs. 7 pockets.			
M6SAL	Grey-Orange Navy blue-Orange Grey-Green Brown-Green White-Grey	Dungarees. Elasticated waist on both sides. Adjustable elasticated braces. 6 pockets.	Twill 65% polyester 35% cotton 235 g/m².	XS/S/M/L/XL/XXL/3XL	CE	x 10





Badge holder location sold separately



Contrasting colours



Internal kneepad pockets Allows you to insert M2GEN kneepads to work more comfortably on your knees









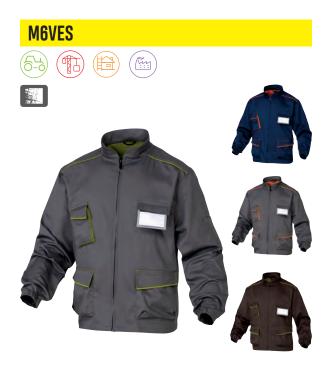


Button closure on the waist





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M6VES	Grey-Green Navy blue-Orange	Jacket. Front zip fastening with bias finishing. Elasticated cuffs. 4 pockets.	2 			0 0 0 0 0 0 0 0 0 0
M6GIL	Grey-Orange Brown-Green	Multipocket vest. Front zip fastening with bias finishing. Bias finishing. 6 pockets.	• • • • • •	XS/S/M/L/XL/	0 0 0 0 0	0 0 0 0 0 0
M6PAN	Grey-Orange Navy blue-Orange Grey-Green Brown-Green White-Grey	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.	-	XXL/3XL	CE	x 10
M6BER	Grey-Green Navy blue-Orange	Bermuda. Elasticated waist on both sides. 5 pockets.	80 	S/M/L/XL/XXL/3XL	0 0 0 0 0	0 0 0 0 0 0













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#### - WORK WEAR PANOSTYLE

# The new PanostrPa trousers completes the PANOSTYLE offer by providing a more modern fit and incomparable comfort thanks to the cleverly positioned stretch fabric.



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LULEA2	White-Grey	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. 5 pockets.	Softshell 96% polyester 4% elastane fabric. S/M/L/XL/XXL/3XL		0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0
NAPOLI	White	Tee-shirt with short sleeves. Round collar.	Jersey stitch 100% cotton 140 g/m².		0 0 0 0 0 0 0	x 10
M6PAN	* - - -	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.	Twill 65% polyester			0 0 0 0
M6SAL	White-Grey	Dungarees. Elasticated waist on both sides. Adjustable elasticated braces. 6 pockets.	35% cotton 235 g/m <sup>2</sup> .	XS/S/M/L/XL/XXL/3XL	CE	

#### LULEA2













#### WORK WEAR MACH SPRING - PALAOS

	R	o <sup>c</sup>	#	<b>WIT</b>	<b>V</b>	
M5SGI	Doigo	Stonewashed multipocket vest. Zip fastening under bias. 12 pockets.	Twill 65% polyester	S/M/L/XL/XXL/3XL	"	v 10
M5SPA	Beige	3 in 1 stonewashed trousers. Elasticated waist on both sides. Preformed knees. 8 pockets including 1 ruler.	35% cotton 245 g/m <sup>2</sup> .		CC	X IU





Dorsal ventilation flap







Triple seams ➡Increased lifespan Crotch reinforcement ⇒Increased lifespan



Kneepad pockets ➡Allows you to insert M2GEN kneepads to work more comfortably on your knees





Pants convertible via zip







Tool holder pocket →The necessary tools always at hand



MAPOC removable pockets sold separately ➡The necessary tools always at hand

	•	o <sup>o</sup>	#	till &	V	
MSLPA	5	Trousers. Elasticated waist on both sides. Preformed knees. 6 pockets including 1 ruler.	Canvas 100% cotton 195 g/m². Cordura® reinforcement 100% polyamide.		0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PALIGVE	Jacket. Zip fastening under bias. Elasticated Grey cuffs. 3 pockets including 1 inner.		S/M/L/XL/XXL/3XL	CE	x 10	
PALIGPA	Navy blue	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.	Twill 100% cotton 200 g/m².		00 0 0 0 0 0 0	• • • • • •





Kneepad pockets Allows you to insert M2GEN kneepads to work more comfortably on your knees



Crotch reinforcement Increased lifespan





PALIGPA 6-3 (17) (18) (19) (19)





#### · WORK WEAR POLOS – TSHIRTS – UNDERWEAR

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BALI	Grey-Navy blue Black-Yellow Orange-Navy Blue Red-Grey Green-Grey	Two-coloured tee-shirt with short sleeves. Round collar.	100% polyester 160 g/m². Dry fit treatment.	M/L/XL/XXL/3XL		2 2 3 4 4 5 4 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5
GENOA	Grey-Orange Royal blue-Navy blue Black-Grey Green-Black	Royal blue-Navy blue Black-Grey Black-Grey Royal collor Black-Grey Royal blue-Navy blue Black-Grey Royal blue-Navy blue Black-Grey Royal blue-Navy blue		s/m/l/xl/xxl/3xl		x 10
NAPOLI	Blue Grey White	Tee-shirt with short sleeves. Round collar.	Jersey stitch 100% cotton 140 g/m².		w 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	a - - - - - - - - - - - - -





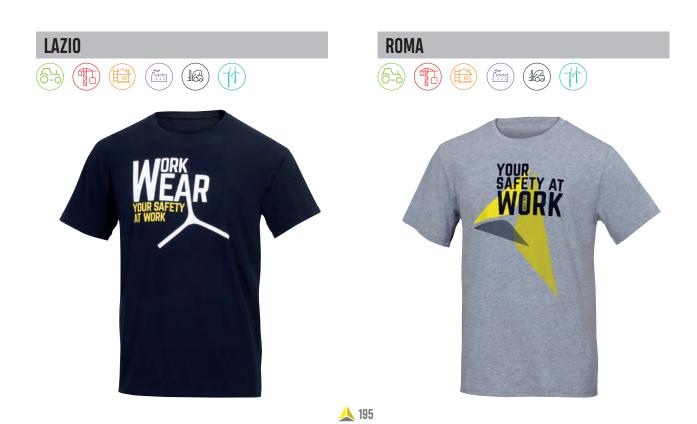


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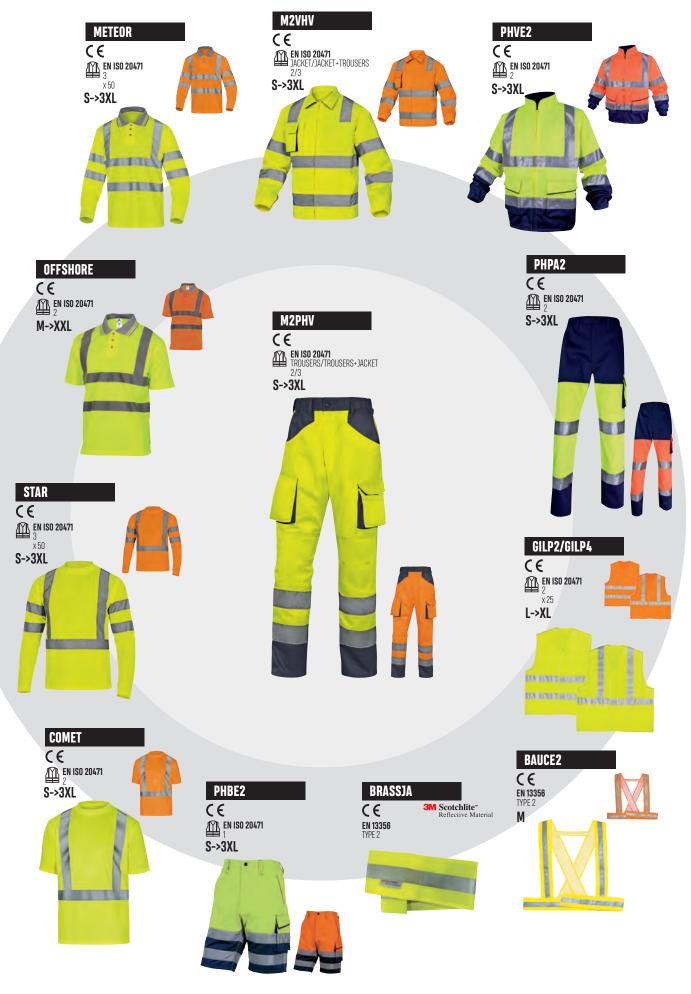
	•	o <sup>C</sup>	#	<b>LUUR</b>	<	
AGRA	Blue Black Red	Polo with short sleeves. Collar with button fastening.	Piqué stitch 100% cotton 200 g/m².		0 0 0 0 0 0 0 0 0	
TURINO	Black Grey-Black	Polo with long sleeves (To match MACH range). Knitted cuffs.	Piqué stitch 100% cotton 210 g/m².	S/M/L/XL/XXL/3XL		x 10
LAZIO	Black	Too shirt with short alsours. Dound coller	large untitab $1000$ unttab $100  \sigma/m^2$	• • • • • • • • • • • • • • • • • • •		- - - -
ROMA	Grey	······ Tee-shirt with short sleeves. Round collar.	Jersey stitch 100% cotton 180 g/m².		*	•







## - WORK WEAR HIGH VISIBILITY WORKWEAR



### - WORK WEAR HIGH VISIBILITY WORKWEAR



	R	o <sup>C</sup>	#	<b>LIVE</b>	• • • •		
M2VHV	Fluorescent yellow- Grey	Jacket. Elasticated cuffs adjustable with Velcro. 4 pockets including 1 zipped and 1 inside. High visibility: Class 2 - Silver colour - Parallel assembly.	Twill 54% cotton 46% polyester 260 g/m².	S/M/L/XL/		EN ISO 20471 JACKET/ JACKET+TROUSERS 2/3	
M2PHV	Fluorescent orange- Grey	Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 7 pockets including 1 ruler pocket.	polyester 200 g/m². Retro-reflective sewn bands.	XXL/3XL		EN ISO 20471 TROUSERS/ JACKET+TROUSERS 2/3	x 10



#### M2PHV



#### From T-shirts to the parka to pants and work jackets, our high-visibility clothing line lets you be seen for your safety in any season wherever you work.





MAPOC removable pockets

➡The necessary tools

sold separately

always at hand

Fixed badge holder included



Triple seams ⇒Increased lifespan



Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees

Class		and the second s
1	> 0,14 m²	> 0,10 m <sup>2</sup>
2	> 0,50 m <sup>2</sup>	> 0,13 m <sup>2</sup>
3	> 0,80 m²	> 0,20m <sup>2</sup>

A high visibility garment that will allow you to be visible to other road users and machine operators day and night.

To be visible by day, they must use yellow, orange or red fabrics that meet the EN ISO 20471 standard.

To be visible at night, they must use retro-reflective tapes that also meet the EN ISO 20471 standard.

The surface and positioning of the retro-reflective fabrics and bands will certify the garment in class 1, 2 or 3.

These classes guarantee a visibility to a greater or lesser distance that you define according to your place of work : construction site, road, highway... We mainly use retro-reflective tapes sewn to guarantee the best value for money.





Our entire range meets the requirements of standard EN ISO 20471 A1 2016. Most models are available in orange and yellow, we developed them with the constant concern of the best value for money without compromising on the quality of the materials used

Laurent Kostrzewa, Body Protection Product Expert

## - WORK WEAR HIGH VISIBILITY WORKWEAR

	•	o <sup>o</sup>	#	ALLER A	▼	Î
PHVE2	Elunroscont vollow.Navy	Jacket. Elasticated cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly. 2 pockets.			<b>πγπ</b> en ISO 20471	
PHPA2	Fluorescent yellow-Navy blue Fluorescent orange-Navy blue	Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 5 pockets including 1 ruler pocket.	Twill 80% polyester 20% cotton 230 g/m <sup>2</sup> . Retro-reflective sewn bands.	S/M/L/XL/XXL/3XL	CE	x 10
PHBE2		Bermuda. Elasticated waist on both sides. High visibility: Class 1 - Silver colour. 5 pockets.			EN ISO 20471 Class 1	





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	R	o <sup>C</sup>	#	<b>U</b>	<b>V</b>	Ŷ
METEOR	Polo with long sleeves. Contrast collar with button placket. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 235 g/m². Retro-reflective sewn S	S/M/L/XL/XXL/3XL	EN ISO 20471 Class 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
STAR	Fluorescent yellow	Long Sleeve T-Shirt, Round collar. High visibility: Class 3 - Silver colour - Shoulder-belt assembly.	bands.		EN ISO 20471 CLASS 3 x 50	v 10
OFFSHORE	Fluorescent orange	rescent Polo with short sleeves. Contrast collar ge with button placket High visibility Class 2 -	M/L/XL/XXL	EN ISO 20471 CLASS 2	- x 10	
COMET		Short sleeve tee-shirt. Round collar. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	KELIU-TEHECLIVE SEWIT DAHUS.	S/M/L/XL/XXL/3XL		







## - WORK WEAR CAPS - BELTS - KNEEPADS

	R	o <sup>o</sup>	#	LUL A	<b>V</b>	Ì
VERONA	Navy blue-Royal blue Grey-Orange Black-Grey Red-Grey	Cap (To match the MACH range).	Twill 65% polyester 35% cotton 245 g/m².	One size		x 100
BADGE	Black	Removable badge holder suitable for all products with badge holder text. Outside dimensions: width 10,5 cm x height 9,5 cm.	Fabric. Plastic.			x 750
ATOLL	Grey	Belt. Length: 120 cm.	100% polyester.	One size		x 100
CEINTO4	Black	Adjustable lumbar belt with velcro band. Double elasticated band for adjustment. Adjustable tightening shoulder-straps. Reinforced at the back with a system of «4 stiffeners».	Canvas polyester elastane. Stiffeners in polypropylene.	M/L/XL		x 48

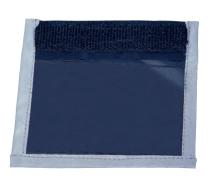








# BADGE





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MAPOC		Set of 2 removable pockets. 6 pockets and 100% Oxford polyest 1 hammer holder.				x 40
ZIMA	Black	Pair of gel kneepad with outside anti slip shell. Elastic velcro band to maintain the knee. Adjustable strips in elastic velcro.	PVC-coated 100% polyester. 100% polyester lining. PVC shelve.	One size	EN14404 TYPE 1 LEVEL 1	v 10
M2GEN		Pair of kneepads 20 x 15 cm for trousers, dungarees and overalls of the MACH and PANOSTYLE ranges (not M2CZ2).	Polyethylene foam.	• • • • • • • • • • • • • • • • • • •	EN14404 Type 2 LEVEL 1	x 10

#### MAPOC











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# DESIGNING MANUFACTURING YOUR SAFETY AT WORK

FLIAP

## **OUTDOOR WEAR**

#### 207 • HELP WITH CHOICE

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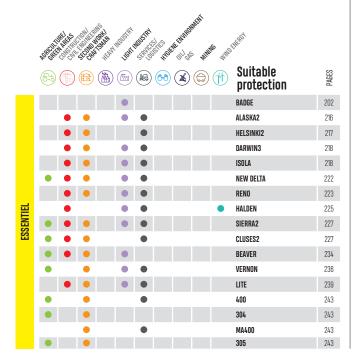


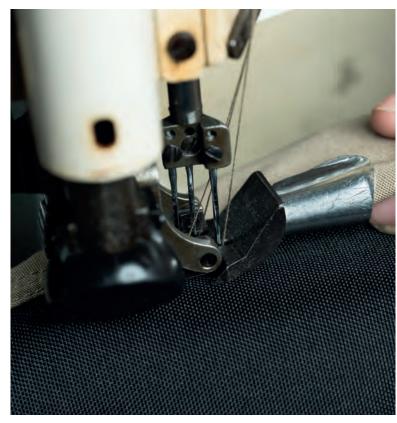
## OUTDOOR WEAR HELP WITH CHOICE

TO FIND THE SUITABLE PRODUCT FOR YOUR JOB

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		-	-							1011110	241





### SIZES

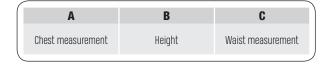
Order the right size by taking the correct measurements

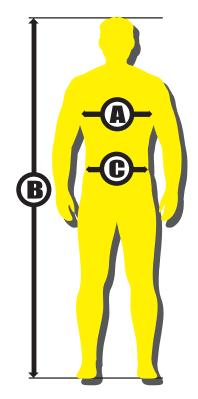
To take the correct measurements, take the measurements directly on the body, without tightenning.

#### I.E. :

• the measurements outlined in the tables are for the **body**, not the garment.

• for wearing a garment over another, **the width required is provided**.



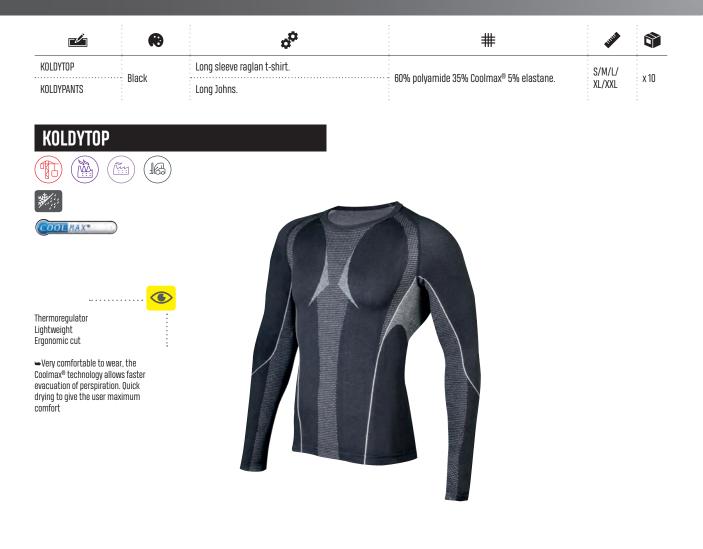


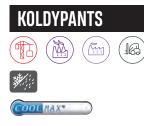
### - SIZE EQUIVALENCE TABLE

MALE	В	<b>XS</b> 156/164	<b>S</b> 156/164	<b>M</b> 164/172	<b>L</b> 172/180	<b>XL</b> 180/188	<b>XXL</b> 188/196	<b>3XL</b> 196/204
	EU	44/46	46/48	48/50	50/52	52/54	54/56	56/58
	IT	36/38	38/40	42/44	46/48	50/52	54/56	58/60
JACKET / BOMBER Parka / Vest	DE	48/50	50/52	52/54	54/56	56/58	58/60	60/62
Chest measurement (A)	cm	90/94	94/98	98/102	102/106	106/110	110/114	114/118
Chest medsurement (A)	inch	351/2/37	37/381/2	381/2/40	40/411/2	411/2/431/2	431/2/45	45/461/2
	EU	/	34/36	38/40	42/44	46/48	50/52	54/56
TROUSERS Waist measurement (C)	IT/DE	/	38/40	42/44	46/48	50/52	54/56	58/60
	cm	/	66/74	74/82	82/90	90/98	98/106	106/117
	inch	/	26/29	29/32	32/351/2	351/2/381/2	381/2/411/2	411/2/46
	EU	/	34/36	38/40	42/44	46/48	50/52	54/56
UNDERWEAR	IT/DE	/	38/40	42/44	46/48	50/52	54/56	58/60
	cm	/	78/86	86/94	94/102	102/110	110/118	118/123
Chest measurement (A)	inch	/	301/2/34	34/37	37/40	40/431/2	431/2/461/2	461/2/481/2
Weist measurement (0)	cm	/	66/74	74/82	82/90	90/98	98/106	106/117
Waist measurement (C)	inch	/	26/29	29/32	32/351/2	351/2/381/2	381/2/411/2	411/2/46



PARKAS AND BOMBERS JACKETS







## The 3-layers system allows you to always be well protected whatever the weather conditions.



[...]

Evacuate, isolate and protect are reminiscent of first aid terms (Protect - Alert - Rescue) but if we stay within the protection, it's a concept that allows you to choose your clothes to protect you in any weather.

Laurent Kostrzewa, Body Protection Product Expert

**OUTDOOR WEAR** PARKAS AND BOMBERS JACKETS

		o <sup>0</sup>	#	<b>LILLE</b>	<b>V</b>	Û
MILTON2	Black Red Navy blue	Parka. Waterproof seams. Fastening with zip storm flap. Adjustable bottom of garment with elastic drawstring. 6 pockets.	94% polyester 6% elasthane fabric, 2 laminated layers. Yokes: Polyurethane-coated Oxford polyester fabric. Quilted Taffeta polyester lining.	S/M/L/XL/ XXL/3XL	CE	x 10

#### MILTON2







BREATHABLE WATERPROOF ⇒Evaporative resistance Class 2



Fleece lined collar ←Comfort wear for optimised cold protection



Internal audio guide



Document storage pocket ⇒The necessary tools always at hand



Fixed badge holder included



➡Maintains heat ⇒Wind-breaker



Inner opening →Easy and qualitative marking











\*

	R	¢ <sup>C</sup>	#	<b>LUUR</b>	<	Û
YEMAN	Black	Bomber jacket. Fastened with a zip under storm flap. Knitted cuffs and bottom of garment. 6 pockets.	65% polyester 35% cotton Ripstop fabric. Top lining: polyester polar fleece - Bottom lining: polyester Taffeta.	S/M/L/XL/ XXL/3XL	CE	x 10



Padded removable hood Increased protection from the cold



Fleece lined collar Comfort wear for optimised cold protection



Decorative retro-reflective piping on the front and back



Fixed badge holder included



Inner opening ⇒Easy and qualitative marking





## - OUTDOOR WEAR PARKAS AND BOMBERS JACKETS

	•	o <sup>©</sup>	#	ALL	<	Ŵ
EOLE	Grey	Parka 3 in 1, removable jacket. Rain parka: Waterproof seams. Fastening with zip under storm flap. 6 pockets. Removable Jacket: Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 2 pockets.	Fabric 74% polyamide 26% polyester with polyurethane coating. Fixed polyester mesh lining. Removal "Softshell" fabric vest 96% polyester 4% elastane.	s/m/l/xl/	EN343 3 1*	x 5
TATRY		Parka. Waterproof seams. Fastening with zip under storm flap. Wadded removable hood. Adjustable bottom of garment with elastic drawstring. 8 pockets.	Fabric 94% polyester 6% elastane 2 laminated layers. Padded polyester taffeta lining.	XXL/3XL		x 10









Decorative retro-reflective serigraph







Detachable jacket "Softshell" fabric - 3 in 1 Lightness and protection against cold and fine rain Use all year round



Padded removable hood Increased protection from the cold



Fleece lined collar Comfort wear for optimised cold protection



Inner opening Easy and qualitative marking

## TATRY







BREATHABLE WATERPROOF Evaporative resistance Class 2



Inner cuffs ➡Maintains heat ➡Wind-breaker

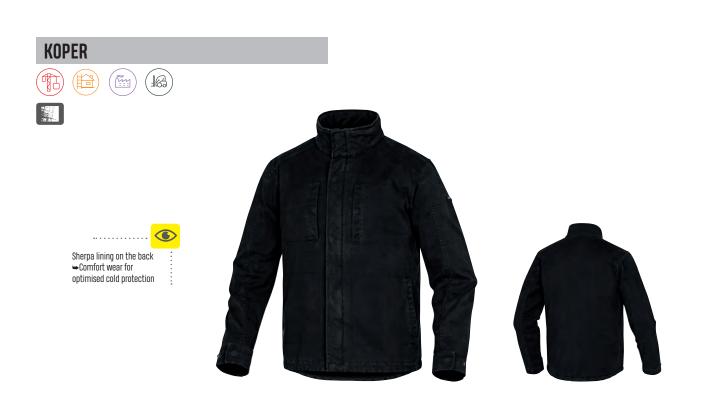




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	R	o <sup>o</sup>	#	<b>LUUR</b>	<	Î
VIGO	Grey Red-Black	Parka. Fastening zip under storm flap. Fixed hood. 4 pockets.	Fabric 96% polyester 4% elastane 2 laminated layers. Padded polyester taffeta lining.	s/m/l/xl/	"	v 10
KOPER	Black	Stonewashed jacket. Fastening with zip under press studs storm flap. 6 pockets including 2 inner.	Cloth 100% cotton 270 g/m². Polyester polar fleece lining.	S/M/L/XL/ XXL/3XL	ננ	XIU





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## - OUTDOOR WEAR PARKAS AND BOMBERS JACKETS

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	•	¢ <sup>0</sup>	#	<b>U</b> UU	<b>V</b>	Ŷ
CARSON	Grey-Orange Black-Grey Navy blue-Royal blue	Parka (To match the MACH range). Waterproof seams. Fastening with zip under velcro storm flap. Adjustable waist with elastic drawstring. Removable hood. 5 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	CE (1) EN343 3 1*	x 10

#### CARSON

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Fleece lined collar Comfortable to wear and protects against the cold



Decorative reflective piping on sleeves



Fixed badge holder included



Inner cuffs ➡Maintains heat ➡Wind-breaker



Inner opening →Easy and qualitative marking





To match the STOCKTON2 vest and NORTHWOOD2 bomber jacket



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	•	o <sup>c</sup>	#	<b>UUU</b>	<	Û
FINNMARK	Navy blue-Black	Parka. Waterproof seams. Collar with polar lining for optimal comfort. Fastening with zip under velcro storm flap. Adjustable bottom of garment with elastic drawstring. 5 pockets.	PVC-coated Ripstop polyester fabric. Quilted polyester Taffeta lining.		EN343 3 1*	
GOTEBORG	Navy blue	Parka. Waterproof seams. Collar with polar lining for optimal comfort. Fastening with zip under velcro storm flap. Removable hood. Adjustable bottom of garment with elastic drawstring. 5 pockets.	PVC-coated Twill polyester fabric. Top lining: Wadded polyester polar fleece. Bottom lining: Wadded polyester Taffeta.	XXL/3XL	<b>C C</b> <b>EN14058</b> 3 0,199 m <sup>2</sup> . K/W WP <b>EN343</b> 3 1*	x 10

#### FINNMARK







Decorative Retroreflective tapes (front)



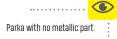
Inner opening Easy and qualitative marking













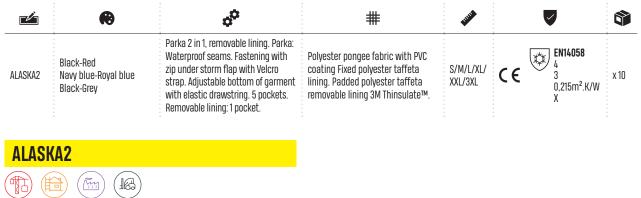




Inner opening Easy and qualitative marking



## - OUTDOOR WEAR PARKAS AND BOMBERS JACKETS









Decorative reflective strips (front and back)



Fixed badge holder included



Ribbed inner cuffs ➡Maintains heat ➡Wind-breaker





3M Thinsulate™ padded thermal removable lining ⊷Very high heat retention ⊷Modulable according to the activity

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Insulating textile complex Protection from extreme cold \*

	•	o <sup>o</sup>	#	<b>LUUE</b>	V	Î
HELSINKI2	Navy blue Navy blue-Royal blue	Parka. Waterproof seams. Fastening zip under velcro and press studs storm flap. Adjustable waist with elastic drawstring. 4 pockets.	PVC-coated polyester fabric. Wadded polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	C C E <sup>EN342</sup> 0.273m <sup>2</sup> K/W (B) 2 X	x 10

### **HELSINKI2**





Wadded removable hood ➡Increased protection from the cold



Decorative retro-reflective piping on the front and back



Removable badge holder included



Ribbed inner cuffs Maintains heat and wind-proof



Inner opening →Easy and qualitative marking





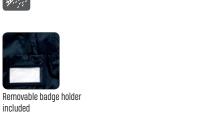


## OUTDOOR WEAR PARKAS AND BOMBERS JACKETS

	R	o <sup>o</sup>	#	<b>LUUS</b>	<b>V</b>	Î
DARWIN3		Parka. Waterproof seams. Fixed hood. Adjustable waist with drawstring. 5 pockets.	PVC-coated Pongee polyester fabric. Quilted polyester Taffeta lining.	XS/S/M/L/ XL/XL/3XL		
ISOLA	Navy blue	3 in 1 parka: Removable lining. Parka :Waterproof seams. Fixed hood. Adjustable waist and bottom of garment with elastic drawstring. 6 pockets. Removable lining :Collar with corduroy lining. Removable sleeves. Fastening with press studs. Gusset opening on sides with press-studs. 2 pockets.	PVC-coated polyester fabric. Fixed polyester Taffeta lining. Removable quilted polyamide Taffeta lining.	S/M/L/ XL/XXL	C E 💮 EN343 3 1*	x 10











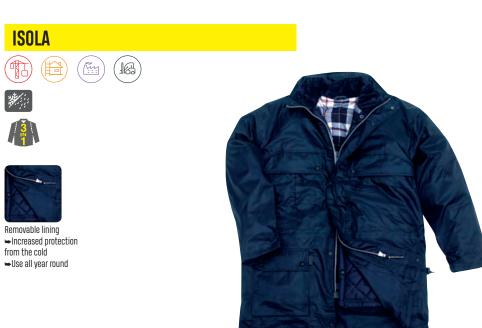
Inner opening ➡Easy and qualitative marking















## - OUTDOOR WEAR PARKAS AND BOMBERS JACKETS

	R	o <sup>0</sup>	#	<b>U</b> UU	Û
MOOVE	Black-Red Navy blue-Orange Black-Camouflage	Bi-material jacket. Fastening zip under storm flap. Fixed hood. Knitted cuffs. 5 pockets.	Quilted polyurethane-coated Ripstop polyamide fabric. Yokes: Polyester fabric. 2 laminated layers. Polyester taffeta lining.	S/M/L/XL/ XXL/3XL	x 10

#### MOOVE



Removable badge holder included



Decorative retro-reflective piping on the front and back



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	•	o <sup>o</sup>	#	<b>U</b> UU <b>A</b>	<	Ì
MOTION	Grey	Bi-material jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 5 pockets.	"Softshell" fabric 96% polyester 4% elastane. Yokes: Polyester fabric coated with acrylic padded. Polyester taffeta lining.	S/M/L/XL/	CE	
DOON	Black-Red Grey-Orange Navy blue-Royal blue	Down jacket (to match MACH range). Fastening with zip under storm flap. Cuffs and bottom of garment with bias finishing. Fixed hood. 2 pockets.	Ouilted polyamide fabric. Polyester taffeta lining.	XXL/3XL		x 10









soft for

Softshell -Lightness and protection from cold, wind and fine rain



SLIGO matching rain parka ➡To add rain protection

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## - OUTDOOR WEAR PARKAS AND BOMBERS JACKETS



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	•	o <sup>C</sup>	#	<b>VIII</b>		Û
RANDERS	Grey Navy blue Black	Ouilted bomber jacket with removable sleeves (To match the MACH range). Fastened with a zip under the storm flap with press studs. Knitted cuffs and bottom of garment. 5 pockets.	Quilted polyurethane-coated polyamide fabric. Lining: Quilted in polyester Taffeta.	S/M/L/XL/	~ ~	× 10
RENO	Black Navy blue Green	Bomber jacket with removable sleeves. Collar with polar lining for optimal comfort. Knitted cuffs and bottom of garment. 5 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester polar fleece lining.	XXL/3XL	נכ	XIU







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Fixed badge holder included





	•	o <sup>C</sup>	#	<b>WINE</b>	<	Î
b FIDJ12 G B	-rev-Riack	Bodywarmer. Collar with polar lining for optimal comfort. 4 pockets.	PVC-coated Pongee polyester fabric. Yokes: PVC-coated Oxford polyester. Wadded polyester polar fleece lining.	S/M/L/XL/ XXL/3XL	CE	x 10





Lateral zips Freedom of movement



Kidney protector Perfect protection of the lower back against the cold











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	•	o <sup>c</sup>	#	tille	<	
NATORI	Grey-Black	Bodywarmer (To match MACH 5 range). Fastened with a zip under storm flap. Bias finishing. 6 pockets.	Softshell fabric polyamide/polyester polar.	s/m/l/xl/	- - - - - - - - - - - - - - - - - - -	v 10
HALDEN	Navy blue Grey	Vest. Fastening with zip under storm flap. Armholes with bias finishing. 4 pockets.	Softshell 100% polyester fabric, 3 laminated layers.	XXL/3XL		XIU





Decorative retro-reflective piping on the front and back







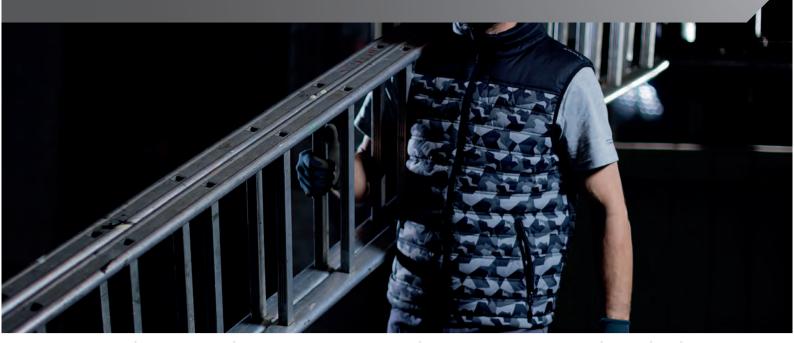
3 layers softshell Lightness and protection from cold, wind and fine rain







## - OUTDOOR WEAR BODYWARMERS



	•	a <sup>0</sup>	#	<b>U</b> UU	<b>V</b>	
G-DOON	Black-Red Black-Camouflage Navy blue-Royal blue	Bodywarmer. Fastening zip under storm flap. Armholes with bias finishing. Low back protection. 3 pockets.	Polyurethane-coated Ripstop polyamider fabric. Polyester Taffeta lining.	S/M/L/XL/		v 10
GRANDERS	Black	Padded vest. Zip fastening. Armholes with bias finish. Adjustable bottom of garment with elastic drawstring. 3 pockets.	Polyester fabric coated with polyurethane. Polyester taffeta lining.	XXL/3XL	CE	XIU







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	R	o <sup>C</sup>	#	<b>LUUR</b>	<b>V</b>	Û
SIERRA2	Navy blue-Orange Grey-Green Navy blue-Red Navy blue	Multipocket bodywarmer (to match the PANOSTYLE range). Fastening with zip under storm flap. Elasticated on both sides and back. 9 pockets.	65% polyester 35% quilted cotton canvas. Wadded polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	CE	x 20
CLUSES2	Navy blue	Bodywarmer. Fastening with zip under storm flap. Elasticated bottom of garment. 6 pockets.	65% polyester 35% quilted cotton canvas. Polyester Taffeta lining.	9 9 9 9 9 9 9 9 9 9 9		







Wind-proof armholes



Fixed badge holder included



Kidney protector Perfect protection of the lower back against the cold



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Hand pockets















## - OUTDOOR WEAR BODYWARMERS - TROUSERS

	R	o <sup>C</sup>	#	<b>UNIT</b>	<	Û
DMACHGIW	Black-Red Grey-Yellow	Multipocket bodywarmer (To match theD-MACH range). Fastened with a zip under the storm flap with press studs. Elasticated on both sides and back. 8 pockets.	Twill 65% polyester 35% cotton 245g/m². Padded polyester taffeta lining.	S/M/L/XL/ XXL/3XL	CE	x 10
DMACHPAW		Trousers. Elasticated waist on both sides. 6 pockets including 1 ruler.				

#### DMACHGIW

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Fleece lined collar

Inner opening Heasy and qualitative marking

←Comfort wear for optimised cold protection







Decorative retro-reflective piping on the back



Fixed badge holder included



Kidney protector Perfect protection of the lower back against the cold







Lower trousers reinforced with anti-dirt coating



Ouilted lined pants → Comfort wear for optimised cold protection



Kneepad pockets Allows you to insert M2GEN kneepads to work more comfortably on your knees









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	•	o <sup>¢</sup>	#	<b>LIVE</b>	<b>V</b>	Û
STOCKTON2	Grey-Orange Navy blue-Royal blue Black-Grey Green-Black	Multipocket bodywarmer (to match the MACH range). Fastening with zip under storm flap. Adjustable bottom with elastic drawstring. 9 pockets.	Ouilted twill 65% polyester 35% cotton 235 g/m². Wadded polyester Taffeta lining.	S/M/L/XL/	( (	x 10
M2PW2	Grey-Orange Navy blue-Royal blue Black-Grey	Warm trousers. Elasticated waist on both sides. 7 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m². 100% flannelette lining.	XXL/3XL	CE	XIU
STOCK			Contraction of the second secon			
			Decorative retro-reflective piping on the front and back Hand pockets		X	













To match the NORTHWOOD2 jacket and CARSON parka

(Fire)







Decorative retro-reflective piping on the back



Fixed badge holder included



➡Comfort wear for optimised cold protection



Triple seams ➡Increased lifespan





Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees



MAPOC removable pockets sold separately The necessary tools always at hand







## - OUTDOOR WEAR POLARS - SOFTSHELL - SWEATS - PULL-OVER





## Softshells are developed to meet everyday use throughout the year whether worn in the first or second layer.



Softshells are jackets that derive their name from the textile that make them up and whose performance differs according to the textiles used.

The presence of a membrane makes the textile a windbreaker, it is then composed of 3 textile layers :

- external very often stretch

- the membrane

- the inner side very often polar for the comfort and the contribution of heat.

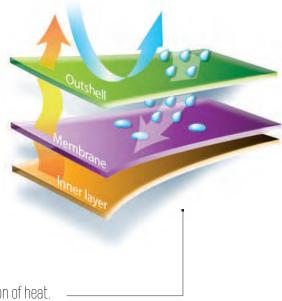
Composed of 2 textile layers with no membrane, it is a real technical alternative to the polar with its appearance and its Water repellent properties.

The Softshell jacket can be used as a 2nd or 3rd layer. Wind-proof, Water repellent, insulating with or without a hood, with or without sleeves, this is real everyday clothing.



Today it is unavoidable, the softshell is THE technical clothing that can be used all year round. Light, flexible, wind-proof it is a true ally for everyday life. When temperatures are mild it is an excellent garment to protect from the wind, cold and light rain. And when it's colder, we recommend using the softshell as a 2nd layer under a parka.

Laurent Kostrzewa, Body Protection Product Expert





- OUTDOOR WEAR POLARS - SOFTSHELL - SWEATS - PULL-OVER

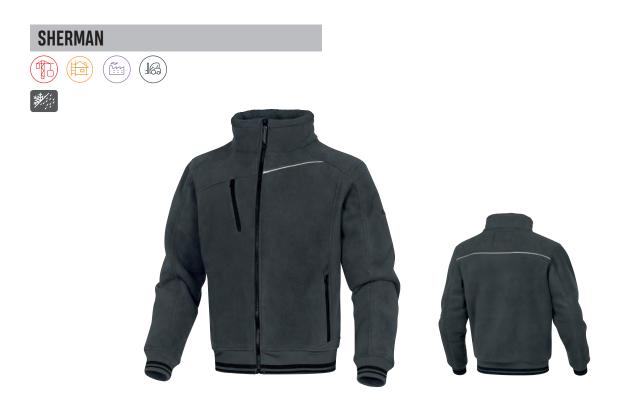


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	R	o <sup>c</sup>	#	<b>U</b> UU	Û
BRIGHTON	Grey-Black	Polar fleece jacket. Zip fastening. 3 pockets.	Polyester polar fleece 350 g/m². Inserts: Polyester Taslon fabric.	S/M/L/XL/ XXL/3XL	x 10
SHERMAN	Grey	Polar fleece jacket. Fastened with a zip under storm flap. Knitted cuffs and bottom of garment. 5 pockets.	Polyester polar fleece 540 g/m².		x 5









## OUTDOOR WEAR POLARS - SOFTSHELL - SWEATS - PULL-OVER

		a <sup>C</sup>	#	<b>UUU</b>		Î
NAGOYA	. Navy blue Grey	Cardigan jacket (To match the MACH ORIGINALS range). Fastened with a zip under storm flap. Cuffs and bottom of garment with bias finishing. 6 pockets.	Polyester stitch. Yokes: Cordura® and "Softshell" 96% polyester 4% elastane fabric.	S/M/L/XL/ XXL/3XL	CE	x 10
MARMOT		Truck driver polar fleece, pullover appearance. Zip closure. Cuffs and bottom of fleece with bias finish.	Polyester knit 285 g/m². Yokes: 100% polyester material, 2 laminated layers.			
BEAVER	Navy blue- Orange Grey-Orange Grey-Green Black	Cardigan jacket (To match the MACH and PANOSTYLE ranges). Fastened with zip under storm flap. Cuffs and bottom of garment with bias finishing. 4 pockets.	Polyester stitch 380 g/m². Yokes: "Softshell" 96% polyester 4% elastane fabric.			





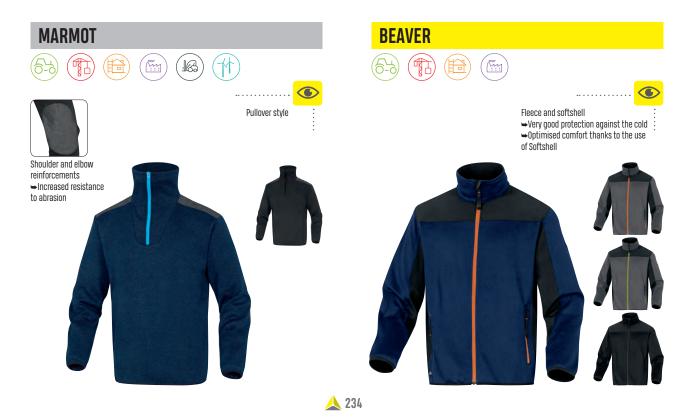
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Fleece lined collar Comfort wear for optimised cold protection



Decorative retro-reflective piping on the front and sleeves



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	•	o <sup>C</sup>	#	<b>UNIT</b>	♥	
ANZIO	Grey Navy blue	Sweat jacket. Front fastening with zip. Knitted cuffs and bottom of garment. 4 pockets. Adjustable hood with drawstring.		S/M/L/XL/		
LECCO	Wine-coloured- Black Grey-Yellow Black-Red	Sweat jacket. Knitted cuffs and bottom of garment. 2 lower pockets. Adjustable hood with drawstring.	65% polyester fleece 35% cotton.	XXL/3XL		X IU









OUTDOOR WEAR POLARS - SOFTSHELL - SWEATS - PULL-OVER

	•	o <sup>C</sup>	#	tille	Î
VERNON	Black Royal blue Red	Polar fleece jacket. Elasticated cuffs. 2 pockets.	Polyester polar fleece 280 g/m².	S/M/L/XL/	
Alma	Navy blue Black Orange	Under Shirt. Raglan sleeve with zip Mandarin collar. Designed for next to skin use.	Polyester polar fleece 200 g/m².	XXL/3XL	x 10









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## - OUTDOOR WEAR CAPS - HOODS - GLOVES

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KARA	Red Black Orange Grey Navy blue	Cap in wadded 3M Thinsulate™ polyester polar fleece.		x 120
CHAMONIX	Red Navy blue	Neck scarf in polyester polar fleece. Tightening with elastic drawstring.		• • • •
JURA	Grey Black Navy blue	Double thickness cap in acrylic knit.	One size	x 240
NORDIC	Navy blue	Warm cap in polyamide canvas with synthetic lining. Wadded polyester Taffeta lining. Protective ear flaps		
NEVE	Navy blue Black	Gloves in polyester polar fleece.		x 120





· OUTDOOR WEAR RAIN



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	•	o <sup>0</sup>	#	<b>LULUS</b>	♥	Î
OTAKE	Grey-Black	Light bomber jacket (To match the MACH 5 range). Waterproof seams. Fixed hood with mesh lining. Fastening with zip under storm flap. Elasticated waist and bottom of garment. 6 pockets.	Polyurethane-coated polyamide fabric. Polyester mesh lining.	S/M/L/XL/	C C C 3	x 5
LITE	Grey-Orange Grey-Green Navy blue-Orange Black	Light bomber jacket (To match the MACH and PANOSTYLE ranges). Waterproof seams. Fixed hood. Fastening with zip under storm flap. Elasticated waist and bottom of garment. 5 pockets.	PVC-coated polyester fabric. Polyester mesh lining.	XXL/3XL		x 10





- OUTDOOR WEAR RAIN

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SLIGO	Black-Red Navy blue-Royal blue Grey-Orange	Light parka (To match the MACH and PANOSTYLE ranges). Waterproof seams. Fastening with zip under storm flap with Velcro strap. Fixed hood. 7 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester mesh lining.	S/M/L/XL/ XXL/3XL	CE (1) EN343	x 10
GALWAY	Black	Rain trousers. Waterproof seams. Elasticated waist. Bottom legs with press-stud opening. 2 pockets and 2 hand slits.	Polyurethane-coated Oxford polyester fabric.	XXL/JXL	1*	
SLIGO						
¥					F	
	7		SA			
Decorative retro-reflect Diping on the back	tive Inner openii ➡Easy and marking					

Fixed badge holder included







GALWAY





Adjustable leg bottoms with gussets Easy dressing





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	æ	o <sup>0</sup>	#	<b>UUU</b>	<b>V</b>	Î
LIDINGO	Navy blue	Rain jacket and trousers. Waterproof seams. JACKET: Fixed hood. Adjustable bottom with elastic drawstring. 5 pockets. TROUSERS: Elasticated waist. Adjustable bottom of legs with press-studs. 2 pockets.	PVC-coated polyester fabric. Jacket lining: Polyester mesh. Trousers lining: Polyester Taffeta.	S/M/L/XL/ XXL/3XL		
TYPHOON		Rain trousers. Waterproof seams. Elasticated waist. Bottom legs with press- stud opening. 5 pockets.	PVC-coated polyester fabric. Polyester Taffeta lining.	M/L/XL/ XXL	$\mathbf{C} \in \mathbf{\widehat{f}}_{3}^{\mathbf{EN343}}$	x 10
TOFINO	Black	Rain coat. Waterproof seams. Fastening with zip under velcro and press studs storm flap. Fixed hood. 2 pockets. Flap ventilation.	PVC-coated polyester fabric. Polyester mesh lining.	S/M/L/XL/ XXL/3XL		0 2 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4



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Eyelets under arms Increased breathability for better evacuation of perspiration

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L- outdoor wear RAIN

	R	o <sup>¢</sup>	#	ALL	<b>V</b>	
850	Navy blue Yellow Green	Rain jacket and trousers. Sealed seams. JACKET: Fastening with zip under storm flap. Fixed hood. Underarm ventilation with eyelets. Elasticated inside cuffs. Adjustable bottom of garment with elastic drawstring. 2 pockets. Ventilation back flap. TROUSERS: Elasticated waist. Fly closed with press-studs. Adjustable bottom of legs with press-studs. 2 hand slits.	Mixed polyurethane-coated polyester support.	S/M/L/XL/ XXL/3XL	CE (1977)	x 10
850 (1) (1) (1) (1) (1) (1) (1) (1)	6					
Dorsal venti -Increased for better en perspiration	l breathability vacuation of					

\*

	•	o <sup>C</sup>	#	<b>U</b> UU <b>S</b>	<b>V</b>	Û
400	Royal blue Navy blue Yellow Green	Rain jacket and trousers. Waterproof seams. JACKET: Fastening with zip under storm flap. Fixed hood. Raglan sleeves. Adjustable cuffs with press-studs. 2 pockets. TROUSERS: Elasticated waist. Adjustable bottom of legs with press-studs. 2 hand slits.	PVC-coated polyester fabric.			x 20
MA400		Rain coat. Waterproof seams. Fixed hood. Fastening with zip under storm flap. Elasticated inside cuffs. 2 pockets.		M/L/XL/ XXL		- - - - - - - - - - - - - - - - - - -
304	Yellow Green	Rain jacket and trousers. Sealed seams. JACKET: Fixed hood. Fastening with zip under press-studs flap. Raglan sleeves. Elasticated inside cuffs. 2 pockets. TROUSERS: Elasticated waist. Fly closed with press-studs. Adjustable bottom of legs with press-studs. 2 hand slits.	PVC-coated polyester support. Double sided		$C \in \bigcup_{\substack{3\\1^*}}^{EN343}$	x 10
305		Rain coat. Sealed seams. Fixed hood. Fastening with double press-stud flap. Raglan sleeves. Elasticated inside cuffs. 2 pockets.	coating.	M/L/XL/ XXL/3XL		2 2 2 2 3 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5



### **MA400**











# DESIGNING MANUFACTURING YOUR SAFETY AT WORK



## **TECHNICAL WEAR**

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## TECHNICAL WEAR HELP WITH CHOICE

### - TO FIND THE SUITABLE PRODUCT FOR YOUR JOB -

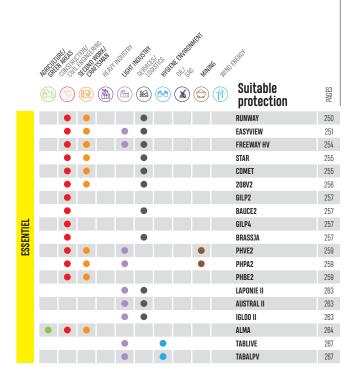


• EVOLUTION • • 

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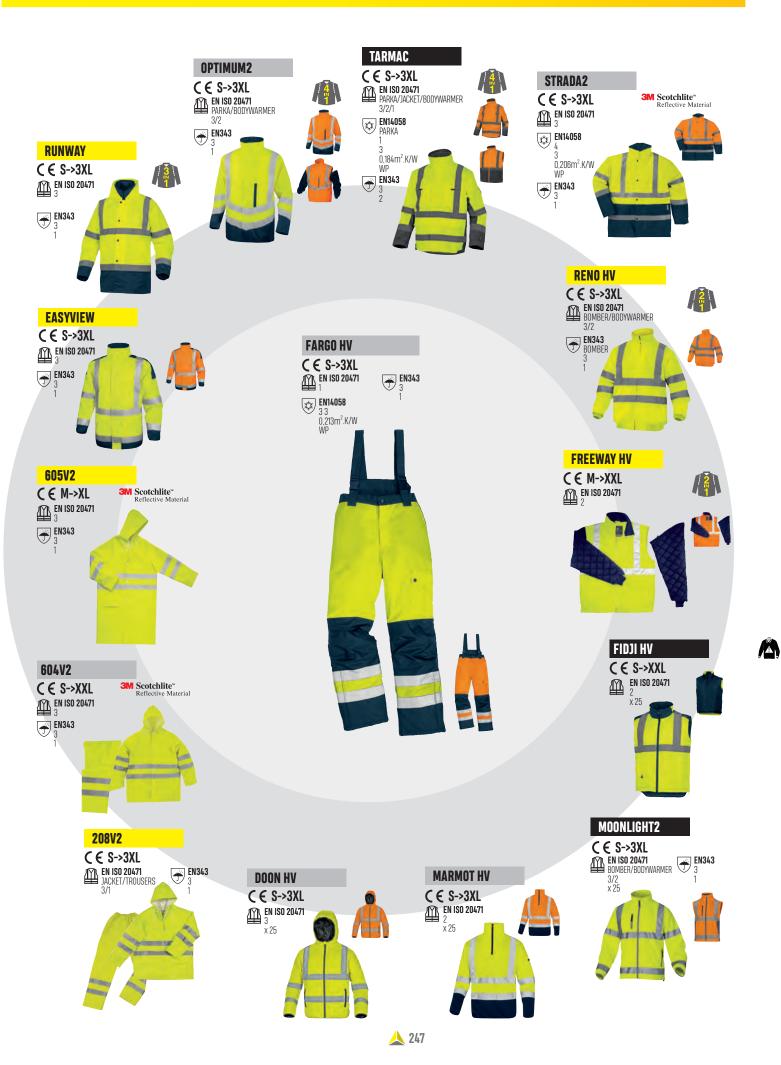
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## - TECHNICAL WEAR OUTDOOR HIGH VISIBILITY



TECHNICAL WEAR  $- \bot$ 

	R	o <sup>¢</sup>	#	tille	<	Û
OPTIMUM2	Fluorescent yellow- Navy blue Fluorescent orange- Navy blue	Parka 4 in 1, removable bodywarmer. Parka: Waterproof seams. Fastening with zip under velcro storm flap. Fixed hood. Polar fleece collar. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets. Removable jacket: Waterproof seams. Removable sleeves. High visibility: Class 2 - Silver colour - Shoulder-belt assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Fixed polyester Taffeta lining. Removable bodywarmer: Polyurethane- coated Oxford polyester with removable sleeves in polyester polar fleece. Quilted polyester Taffeta lining. Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	C C E EN ISO 20471 PARKA/JACKET/ BODYWARMER 3/2/2 EN343 3 1*	x 10
OPTIM	UM2 (Marcology)				P	
Inner opening →Easy and quar	litative marking					

🙏 249

## - TECHNICAL WEAR OUTDOOR HIGH VISIBILITY

	•	o <sup>0</sup>	#	<b>LUUS</b>	• • • •		
STRADA 2	Fluorescent yellow-Navy blue Fluorescent orange-Navy blue	Warm parka. Waterproof seams. Fixed hood. Underarm ventilation eyelets. Fastening with zip under press stud flap. Adjustable waist with elastic drawstring. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 3 pockets.	Polyurethane-coated Oxford polyester fabric. Ouilted polyester Taffeta lining. 3M Scotchlite™ retro-reflective sewn bands.	S/M/L/XL/	<i></i>	EN ISO 20471 Class 3 EN343	x 5
RUNWAY	Fluorescent yellow-Navy blue	Parka 3 in 1, removable lining. Rain parka: Waterproof seams. Fastening with zip under press studs storm flap. 3 pockets. High visibility: Class 3 - Silver colour - Shoulder belt and parallel assembly. Removable lining: Zip fastening.	Polyurethan-coated Oxford polyester fabric. Fixed polyester taffeta lining. Removable padded polyester taffeta fabric lining. Retro-reflective sewn bands.	XXL/3XL	CE	ракка 3 1*	x 10









Ribbed inner cuffs ➡Maintains heat ➡Wind-breaker















	•	o <sup>0</sup>	#	<b>LINE</b>	<	Û
EASYVIEW	Fluorescent yellow-Navy blue	Warm parka Waterproof seams. Fixed hood. Fastening with zip under velcro storm flap. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Ouilted polyester Taffeta lining. Retro- reflective sewn bands.	s/m/l/xl/	EN ISO 20471 CLASS 3 Max. 25 x	v 10
FARGO HV	Fluorescent orange-Navy blue	Warm salopettes. Waterproof seams. Elasticated waist on both sides. Adjustable elasticated braces. Preformed knees. High visibility: Class 1 - Silver colour. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Wadded polyester Taffeta lining. Retro- reflective sewn bands.	XXL/3XL		XIU









Kidney protector Perfect protection of the lower back against the cold



Bottom with gusset Easy dressing





## - TECHNICAL WEAR OUTDOOR HIGH VISIBILITY

	R	o <sup>c</sup>	#	<b>WINE</b>		
MOONLIGHT2	Fluorescent orange-Grey Fluorescent yellow-Grey	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. High visibility: Class 3 - Silver colour - Shoulder-belt assembly. 5 pockets.	Softshell 100% polyester fabric, 3 laminated lavers. Retro-	S/M/L/XL/	EN ISO 20471 BOMBER/ BODYWARMER 3 / 2 Max. 25 x	x 10
LEGA	Fluorescent yellow Fluorescent orange	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. High visibility: Class 3 - Silver colour - Shoulder-belt assembly. 4 pockets.	reflective sewn bands.	XXL/3XL	EN ISO 20471 Class 3	Λ IU



Removable sleeves ➡Use all year round



BREATHABLE WATERPROOF -Evaporative resistance Class 3 high visibility

	•	o <sup>0</sup>	#	<b>U</b> UU	♥	Û
DOONHV	Fluorescent yellow Fluorescent orange	Down jacket. Fastening with zip under storm flap. Cuffs and bottom of garment with bias finishing. Fixed hood. 2 pockets.	Ouilted Ripstop polyester fabric. 2 laminated layers. Polyester taffeta lining. Retro-reflective sewn bands.	S/M/L/XL/	EN ISO 20471 CLASS 3 Max. 25 x	
MARMOTHV	Fluorescent yellow- Navy blue Fluorescent orange- Navy blue	Truck driver polar fleece, pullover appearance. Zip closure. Cuffs and bottom of fleece with bias finish. High visibility: Class 2 - Silver colour - Shoulder- belt and parallel assembly.	Polyester knit 380 g/m². Yokes: Polyester knit 285 g/m².	XXL/3XL	EN ISO 20471 CLASS 2 Max. 25 x	- x 10







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## - TECHNICAL WEAR OUTDOOR HIGH VISIBILITY

	•	o <sup>c</sup>	#	<b>UUU</b>	<b>V</b>	Û
RENO HV	Fluorescent yellow Fluorescent orange	Bomber jacket with removable sleeves. Collar with polar lining for optimal comfort. Knitted cuffs and bottom of garment. Bomber jacket: High visibility Class 3 - Silver colour - Shoulder-belt and parallel assembly. Bodywarmer: High visibility Class 2 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester polar fleece lining. Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	EN ISO BOMBE BODW 3 / 2 Max. 2 EN343 PARKA 3 1*	R/ /ARMER 5 x
FIDJI HV	Fluorescent yellow- Navy blue	Reversible body warmer. Zip fastening. 4 pockets. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	Polyurethan-coated Oxford polyester fabric on 1 side. Quilted polyester taffeta fabric on 1 side. Retro-reflective sewn bands.	S/M/L/ XL/XXL	C C En ISO CLASS Max. 2	2
FREEWAY HV	Fluorescent yellow Fluorescent orange	Jacket with removable sleeves. Collar with polar fleece lining. Knitted cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt assembly. 4 pockets.	Polyester fabric. Quilted polyester Taffeta lining. Sleeves 65% polyester 35% quilted cotton fabric. Retro-reflective sewn bands.	M/L/ XL/XXL	EN ISO CLASS Max. 2	2







	•	o <sup>c</sup>	#	<b>LIVE</b>	<b>V</b>	Î
METEOR	Fluorescent yellow Fluorescent orange	Polo with long sleeves. Contrast collar with button placket. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly.	Piqué stitch 100% polyester	S/M/L/XL/ XXL/3XL	EN ISI Class	<b>0 20471</b> S 3
STAR		Long Sleeve T-Shirt. Round collar. High visibility: Class 3 - Silver colour - Shoulder- belt assembly.			EN ISI CLASS Max. 1	50 x
OFFSHORE		Polo with short sleeves. Contrast collar with button placket. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly.	100% polyester stich 160 g/m².	M/L/ XL/XXL	EN ISO 20471	v 10 0 20471
COMET		Short sleeve tee-shirt. Round collar. High visibility: Class 2 - Silver colour - Shoulder- belt assembly.	Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL		52









## - TECHNICAL WEAR OUTDOOR HIGH VISIBILITY

	•	o <sup>c</sup>	#	<b>UIUU</b>	<	Î
604V2	 Fluorescent yellow	Rain suit: JACKET: Sealed seams. Fixed hood. Zip fastening with studded storm flap over. Raglan sleeves. High visibility: Class 3 - Silver colour - Parallel assembly. 1 pocket. TROUSERS: Elasticated waist. Fly closed with press studs. Adjustable bottom of legs with press studs. High visibility: Class 1 - Silver colour - Parallel assembly. 1 hand slit.	PU/PVC-coated polyester support - Outside coating. 3M Scotchlite™ retro-reflective transfered bands.	S/M/L/ XL/XXL	EN ISO 20471 JACKET/ TROUSERS 3 EN343 3 1*	
605V2	Fluorescent yellow	Raincoat. Sealed seams. Fixed hood. Raglan sleeves. Fastening with zip under press stud flap. High visibility: Class 3 - Silver colour - Parallel assembly. 1 pocket under flap.		M/L/XL	C C E EN ISO 20471 CLASS 3 EN343 3 1*	x 10
208V2		Rain suit. High visibility: Class 3. JACKET: Waterproof seams. Fixed hood. Fastening with zip under press stud flap. Raglan sleeves. 2 pockets. TROUSERS: Elasticated waist. Fly closed with press studs. Adjustable bottom of legs with press studs. 1 side access pockets. Retro- reflective sewn bands: Silver colour - Parallel assembly.	PU-coated Oxford polyester fabric. Retro-reflective sewn bands.	M/L/ XL/XXL	EN ISO 20471 JACKET/ TROUSERS 3 / 1 EN343 3 1*	



	R	o <sup>o</sup>	#	<b>LINE</b>	<	Û	
GILP2		Vest. Fastening with velcro band. High visibility: Class 2 - Silver colour - Parallel assembly.	Polyester fabric. Retro-reflective	L/XXL	EN ISO 20471	x 100	
GILP4	Fluorescent yellow Fluorescent orange	Vest. Fastening with velcro band. High visibility: Class 2 - Silver colour - Shoulder- belt assembly.	sewn bands.	L/ AAL			X IUU
BAUCE2		Shoulder-belt. Fastening with velcro band. Belt and shoulder bands width: 7.5 cm. High visibility: Silver colour - Shoulder-belt assembly.	PU-coated Oxford polyester fabric. Retro-reflective sewn bands.	М		x 10	
BRASSJA	Fluorescent yellow	Armlet. Fastening with velcro band. Dimensions: 9 cm x 50 cm. High visibility - Silver colour.	PVC-coated Oxford polyester fabric. 3M Scotchlite™ retro- reflective sewn bands.	Adjustable	2	x 50	







BRASSJA	
Scotchlite <sup>w</sup> Reflective Material	Fixed badge holder included

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## TECHNICAL WEAR HIGH VISIBILITY WORKWEAR



	•	o <sup>0</sup>	#	<b>LIGHT</b>			Û
PHVE2		Jacket. Elasticated cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly. 2 pockets.			- - - - - - - -	EN ISO 20471 Class 2	
PHPA2	Fluorescent yellow-Navy blue Fluorescent orange-Navy blue	Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 5 pockets including 1 ruler pocket.	Twill 80% polyester 20% cotton 230 g/m². Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	CE	CLASS 2	x 10
PHBE2		Bermuda. Elasticated waist on both sides. High visibility: Class 1 - Silver colour. 5 pockets.				EN ISO 20471 Class 1	



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	•	a <sup>c</sup>	#	LIVE	V	Û
EPICEA 3		Cut resistant jacket. Zip fastening. Adjustable cuffs with press studs. 2 pockets.		M/L/ XL/XXL	EN381-11 CLASS 0	-
DOUGLAS 3		Cut resistant gaiters. Internal zip opening. Tightening strap with press studs. 1 pocket.		One size		
MELEZE 3	Green-Orange	Cut resistant trousers. Adjustable elasticated waist with internal buttons on both sides. Bottom of legs with zip opening. Preformed knees. 6 pockets including 1 ruler.	Twill 60% cotton 40% polyester 290 g/m <sup>2</sup> . Polyester mesh lining with a cut resistant compound.	M/L/	CE EN381-5 TYPE A CLASS 1	x 5
ERABLE 3		Cut resistant dungarees. Zip opening leg hem with preformed knees. Adjustable elasticated waist with internal buttons to both sides. Adjustable elasticated braces. 5 pockets including 1 ruler.		XL/XXL		-







Zip opening

Decorative Retroreflective tapes DOUGLAS 3 - EPICEA 3 -MELEZE 3 - ERABLE 3



#### **MELEZE 3**





Pocket for ruler The necessary tools always at hand ERABLE 3 - MELEZE 3



Ventilation via a zip on the back ➡Increased breathability for better evacuation of perspiration ERABLE 3 - MELEZE 3



#### **ERABLE 3**





Buttock reinforcement →Waist reinforcement →Increased lifespan ERABLE 3 - MELEZE 3

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## - TECHNICAL WEAR CHILL ROOM AND COLD STORE

	Ø	٥ <sup>۵</sup>	#	<b>LIVE</b>	<	Û
NORDLAND	Navy blue Grev	Parka. Waterproof seams. Removable hood. Collar with polar lining for optimal comfort. Fastening with double zip under press stud storm flap. Adjustable waist and bottom with elastic drawstring. 7 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted	S/M/L/XL/ XXL/3XL	CE EN342 0.358 m <sup>2</sup> .K/W (B)	x 5
ICEBERG		Warm Salopette. Waterproof seams. Adjustable waist with elastic drawstring. Adjustable braces. Preformed and reinforced knees. 5 pockets.	polyester Taffeta lining.		X	

#### NORDLAND





e complex Deco

Insulating textile complex A true bulwark from extreme cold



Fixed badge holder included



Wind-proof mitten Maintains heat Wind-breaker





#### **ICEBERG**





Kidney protector ➡Perfect protection of the lower back against the cold



Pockets with waterproof zip



Storm flaps to bottom of legs for extra protection against the cold





	R	¢ <sup>0</sup>	#	till		Î
LAPONIE II		Parka. Removable hood with padded 3M Thinsulate™ polar fleece lining. Collar with polar lining for optimal comfort. Zip fastening with Velcro closing storm flap. Elasticated waist at the back. 6 pockets.			EN342 0.408 m <sup>2</sup> .K/W (B)	
AUSTRAL II	Navy blue	Warm salopette. Adjustable elasticated braces. Bottoms of legs closed with zip under velcro flap. 4 pockets.	85% polyester 15% cotton cloth. Quilted polyester Taffeta lining with 3M Thinsulate™ padded.	M/L/ XL/XXL	ζε	x 5
IGLOO II		Overall. Removable hood with padded 3M Thinsulate™ polar fleece lining. Collar with polar fleece lining. Zip fastening with Velcro storm flap over. Elasticated waist at the back. Bottoms of legs closed with zip under Velcro flap. 5 pockets.			<b>EN342</b> 0.373 m <sup>2</sup> .K/W (B) 2 X	

#### **LAPONIE II**







Insulating textile complex A true bulwark from extreme cold



Ribbed cuffs ➡Maintains heat ➡Wind-breaker







Kidney protector →Perfect protection of the lower back against the cold





3M Thinsulate™ wadding →Light and very warm LAPONIE II - AUSTRAL II - IGLOO II







Bottom with gusset Easy dressing



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## - TECHNICAL WEAR **CHILL ROOM AND COLD STORE**

	<b>€</b>		#	11111A	Ŷ
KOLDYTOP	Dioole	Long sleeve raglan t-shirt.	ROM polyamida 250/ Coolmax® EN/ aleatana	S/M/L/	-
KOLDYPANTS	Black	Long Johns.	60% polyamide 35% Coolmax® 5% elastane.	XL/XXL	•
ALMA	Navy blue Black Orange	Under Shirt. Raglan sleeve with zip Mandarin collar. Designed for next to skin use.	Polyester polar fleece 200 g/m².	S/M/L/XL/ XXL/3XL	x 10
BALTIC	Navy blue	Lightweight Polar fleece Balaclava.	Polyester polar fleece 100 g/m².	One size	



### KOLDYPANTS





BALTIC Ħ \*



## - TECHNICAL WEAR CHEMICAL RESISTANT - FLAME RETARDANT - ANTISTATIC

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	R	o <sup>o</sup>	#	<b>U</b> UU	• • •			Ŵ
KOMODO2	Navy blue	2 in 1 parka: Removable jacket. Parka: Waterproof seams. Fastening with zip under velcro flap. Removable jacket: Zip fastening. Knitted cuffs. 3 pockets.	Polyurethane-coated 98% polyester 2% antistatic fibre fabric. 100% flame retardant cotton fixe lining. 100% polyester polar fleece removable lining.	S(M/L)		EN13034 Type pb (6) En Iso14116	EN343	
KOMODO2HV	Fluorescent yellow-Navy blue	2 in 1 parka: Removable jacket. Parka: Waterproof seams. Fastening with zip under velcro flap. High visibility: Class 2 - Silver colour - Parallel assembly. Removable jacket: Zip fastening. Knitted cuffs. 3 pockets.	Polyurethane-coated 98% polyester 2% antistatic fibre fabric. 100% flame retardant cotton fixe lining. 100% polyester polar fleece removable lining. Loxy® retro-reflective sewn bands.	S/M/L/ XLXXL/ 3XL/4XL CE	EN ISO 20471 CLASS 2 EN13034 TYPE PB (6) EN ISO14116	5 3 EN1149-5	x 5	
SSVFR	Now blue	Underwear set. Long sleeve tee-Shirt and Long Johns.	50% Aramid knitwear 48% Viscose 2% Antistatic fibre 200 g/m².	S/M/L/ XL/XXL/ 3XL/4XL		EN IS014116	EN1149-5	x 10
CAFR1	Navy blue	Hood with flap covering shoulders.	50% Aramid knitwear 48% Viscose 2% Antistatic fibre 200 g/m².	One size		₩¥ 3/12H/60		x 50

#### KOMODO2

**SSVFR** 

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Extended cuff with mitten

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Removable fleece lining Increased protection from the cold Use all year round





## - TECHNICAL WEAR CHEMICAL PROTECTION OVERALLS

	•	o <sup>o</sup>	#	<b>LIVE</b>	♥	Û
C0600	Green	Chemical protective overall type 3, liquid- tight. Raglan sleeves. Sealed seams. Zip fastening with studded cover flap and Velcro straps. Fixed elasticated hood, elasticated at wrist and ankles.	Polyester support with double sided PVC 380 g/m <sup>2</sup> coating.	S/M/L/XL/ XXL/3XL	C C E TYPE 3	x 10
C0600						
M9200 - ROTOR GALAXY	Y					
M9000E A2B2E2K2P3						
RUIZI ACETATE						
PETRO VE766						

# PROTECTIVE APRONS - WELDERS

	R	o <sup>c</sup>	#	till the second s	<b>V</b>	Û
TABNIT		Apron. Adjustment buckle on the neck. Dimensions: 115 cm x 90 cm. Thickness: 0,35 mm.	Nitrile/Vinyl.			x 50
TABPU	White	Apron. Elasticated strap with hook. Adjustment buckle on the waist. Dimensions: 115 cm x 90 cm. Thickness: 0,30 mm.	100% polyurethane 355 g/m².		<b>כ є</b> קיי	x 25
TABLIVE	Green	Waterproof all-purpose apron. Drawstring straps. Dimensions: 110 cm x 75 cm. Thickness: 0,35 mm.	PVC-coated polyester support. Double sided coating.			
TABALPV	White	Apron. Adjustment buckle on the neck. Dimensions: 120 cm x 90 cm. Thickness: 0,30 mm.		One size		0 0 0 0 0 0 0 0
TASOUB	Grey	Welder apron with bib. Adjustment buckle on         the neck. Sewn split leather strap with plastic         bucklet. Dimensions: 90 cm x 60 cm. Thickness:         irey       1,40 mm to 1,60 mm.			x 50	
MANCHB		Welders over sleeve. with elasticated hems. 40cm length. Sold in Pairs.			CLASS 2	0 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8



TABPU

(Fire) (BA)

MANCHB



TASOUB

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## DESIGNING MANUFACTURING YOUR SAFETY AT WORK

MANANA

## **FOOT PROTECTION**

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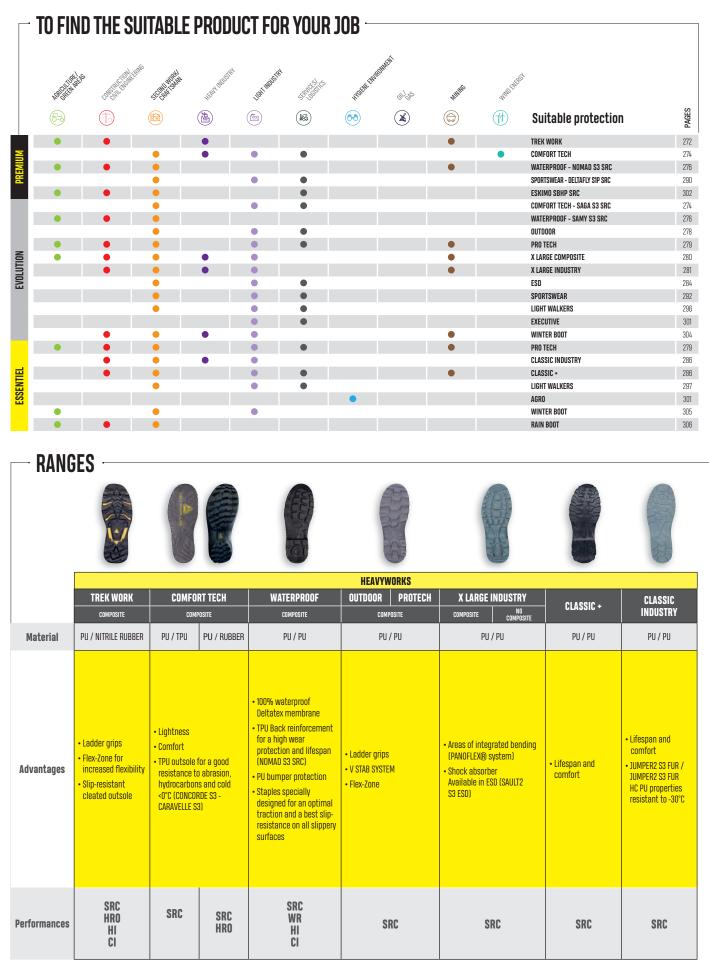
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**FODT PROTECTION** 

## FOOT PROTECTION HELP WITH CHOICE





SPORT	SWEAR		LIGHTWORKS LIGHT WALKERS	EXECUTIVE	AGRO	BOOTS Eskimo SBHP SRC
COMI PU / RUBBER	POSITE PHYLON / RUBBER	composite PU / PU	COMPOSITE NO COMPOSITE PU MONO DENSITY	PU MONO DENSITY	PU / PU	COMPOSITE
<ul> <li>Midsole for effective cushi PU (D-SPIRIT / D-STAR)</li> <li>Phylon (DELTAFLY/DELTASPOI</li> <li>Rubber outsole for improve</li> <li>Crampon design specially (</li> <li>Upper with MATRYX© techr</li> </ul>	RT/BROOKLYN/MANHATTAN) ed abrasion resistance designed for optimum grip	<ul> <li>Upper Mesh (ASTI S (SUMMER STP) for E</li> <li>Available in ESD ve</li> <li>Upper in canvas fo</li> <li>XL large sole for op</li> </ul>	or more lightness (ARONA S1)	• Non-metallic • Lightness and flexibility	• Microfibre upper	• Overshoes and soles PU properties resistant to -30°C
	RC Ro		SRC	SRC	SRC	SRC









## The design and comfort of a trekking shoe with high tech performance of a safety shoe.

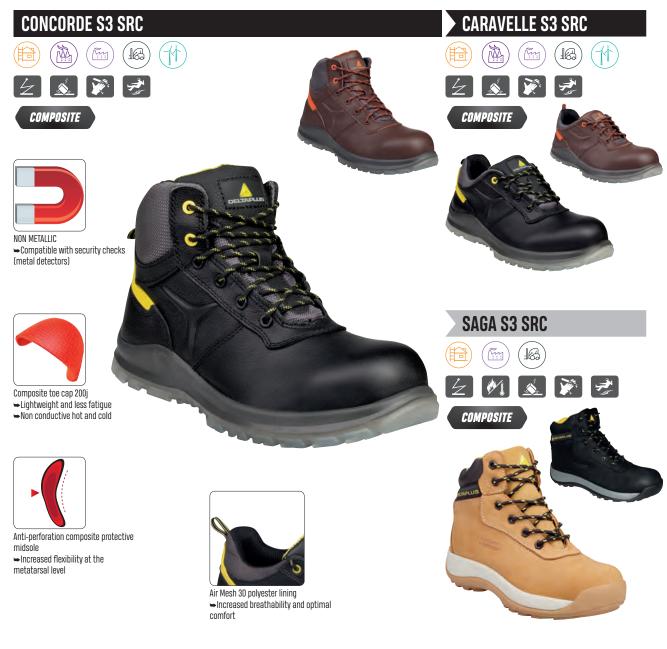




Our goal is to meet the most extreme working conditions. These highly technical and functional shoes allow you to reach unequalled levels of performance.

## - SHOES COMFORT TECH





### Designed for the most demanding workers in terms of comfort.

	R	¢	<b>LIVIA</b>				Û
CONCORDE S3 SRC	Brown	Upper: Calfskin full grain leather, S3 water resistant treatment. Lining: Air Mesh 3D polyester. Insole: "Deltaplus	36 → 48		EN ISO 20345	762 g	
CARAVELLE S3 SRC	Black	Air Flow System" - Removable premolded - Polyester on PU. Outsole: Injected - PU. Outsole: TPU. Non-metallic footwear.	<u>30</u> → 40	CE	S3 SRC	744 g	x 5
SAGA S3 SRC	Beige Black	Upper: Nubuck leather, S3 water resistant treatment. Lining: Polyester. Insole: Removable - polyester on EVA. Outsole: Cemented - PU/Rubber. Non-metallic footwear.	39 → 48	4510	<b>EN ISO 20345</b> S3 HRO SRC <b>ASTM F2413</b> M 1/75 C/75 PR SD	842 g	<ul> <li>a</li> <li>a</li></ul>





At the heart of this premium collection, our team has developed a major concept "The Comfort" which translates into 4 axes (the shape, the leather, the flex, the insole). Trying it is adopting it!

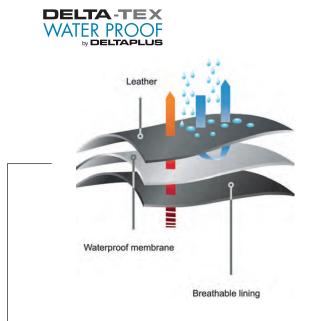






# The protection also goes through an innovative concept of impermeability and water resistance. The DELTA-TEX™ membrane protects you from the weather while wicking away moisture.

		¢ <sup>C</sup>	<b>NULL</b>	- - - - -			Û
NOMAD S3 SRC	Brown Black	Upper: Full grain leather, S3 water resistant treatment. Lining: DELTA-TEX™ waterproof polyester membrane. Insole: Removable - polyester on EVA. Midsole: Injected - Dual density PU. PU bumper protection. Non metallic footwear.	e: Removable PU. PU 		EN ISO 20345	812 g	
SAMY S3 SRC	Black	Upper: Full grain leather, S3 water resistant treatment. Lining: DELTA-TEX™ waterproof polyester membrane. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. PU bumper protection.		CE	S3 WR HI CI SRC	844 g	ХЭ



DELTA-Tex polyester membrane WATERPROOF: waterproof and breathable.

It offers a water-proofing greater than 10,000 mm/cm<sup>2</sup> (ISO811). Impermeability is measured by placing this membrane under a tube of water (water column). The minimum water height at which the first drops of water pass through this membrane represents its impermeability.



Rear reinforcement Stabilisation of the foot when walking Reinforced protection on the rear of the shoe



Polyester lining Softer and more comfort



Outsole with PU protection bumper ➡Reinforced protection of the forefoot



Fast lacing ➡Time saving



1- They offer a reinforced support of the foot 2- Due to the retro-reflective strips, they increase the visibility for even more security.



The weather, work and the outdoor business sector leads you to face harsh conditions. That is why we have developed this range whose "waterproof" membrane protect you perfectly from bad weather.

### · SHOES OUTDOOR

## The nature sports and walking shoe dedicated to safety. Comfortable, technical and performance, the shoes of OUTDOOR range will take you far !



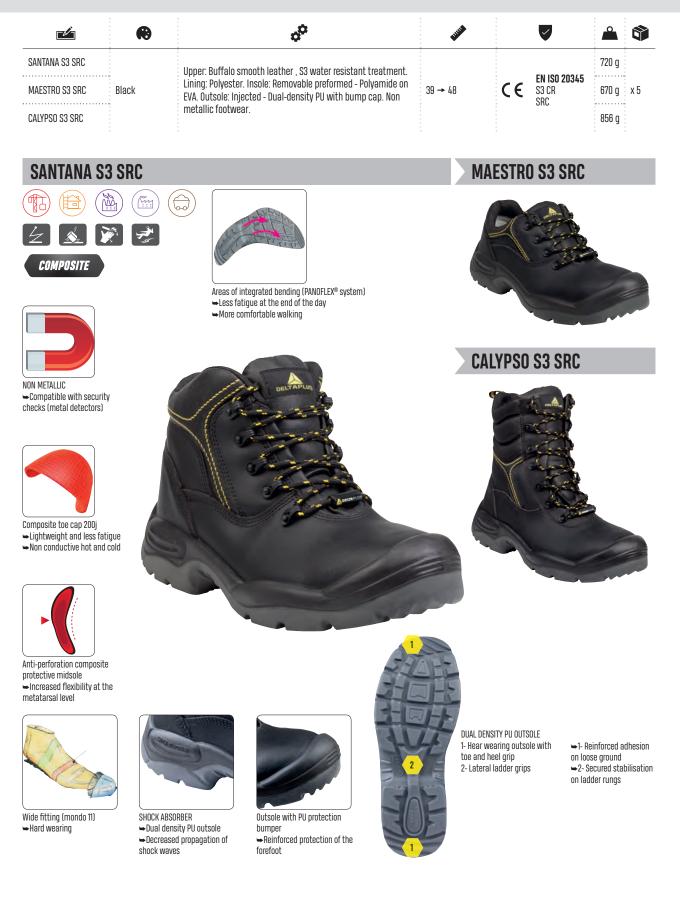
# BRO TECH

## A professional range combines resistance, comfort and lightness.

	•	o <sup>o</sup>		ALL	- - - -			
PHOENIX S3 SRC		Upper: Pigmented split leather, S3 water resistant Polyamide mesh. Insole: Removable preformed - F			- - - - - -	<b>EN ISO 20345</b> S3	590 g	
PHOCEA S3 SRC		Outsole: Injected - PU bi-density. Non metallic fool	twear.		· · ·	SRC	570 g	
PROTON S1P SRC	Black	Upper: Pigmented split leather. Lining: Polyamide preformed - Polyamide on EVA. Outsole: Injected - metallic footwear.	mesh. Insole: Removable PU bi-density. Non	36 → 47	CE	<b>EN ISO 20345</b> S1P	594 g	x 5
PRISM S1P SRC		Upper: Pigmented split leather. Lining: Polyamide preformed - Polyamide on EVA. Outsole: Injected - metallic footwear.			6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	SRC	590 g	
PHOENIX	S3 SRC			PHC	DCEA	S3 SRC		
5-3) 全 COMPOSITE		Contractions of the second sec	NON METALLIC • Compatible with se checks (metal detect					
	DUAL DENSITY PU OUTSOL		Composite toe cap 20 - Lightweight and lee - Non conductive hot	s fatigue				
3	1- Flex zone 2- V STAB SYSTEM 3- Lateral ladder grips 4- Cleats, SRC standards	<ul> <li>→1- Foot motion improved</li> <li>→2- Reinforced control of foot torsion</li> <li>→3- Secured stabilisation on ladder rungs</li> <li>→4- Good grip on all types of indoor and outdoor surfaces</li> </ul>	Anti-perforation comp protective midsole —Increased flexibility metatarsal level					
<b>PROTON S</b>	S1P SRC			PRI	<mark>SM S</mark>	1P SRC		
6-3 (PD) 22 (SA) COMPOSITE								

## - SHOES X-LARGE COMPOSITE

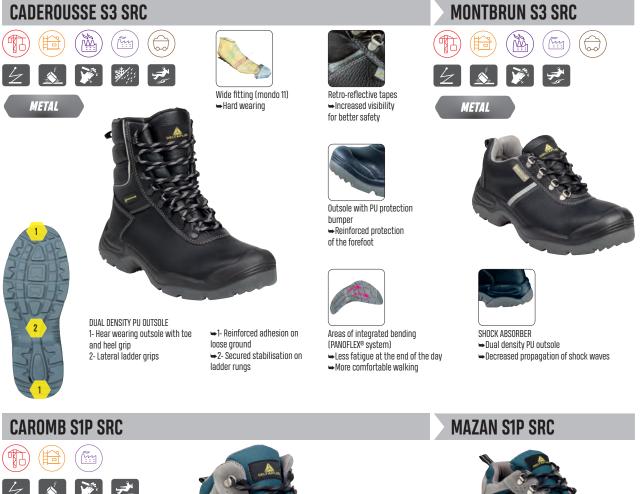
### X-LARGE COMPOSITE is the perfect answer for trades where RESISTANCE and PROTECTION are essential and the concept of COMFORT a must.



## - SHOES X-LARGE INDUSTRY

## Symbol of comfort, protection and durability, the X-LARGE INDUSTRY range meets the toughest working environments.

	•	d <sup>0</sup>	tuus				Û
CADEROUSSE S3 SRC	Diach	Upper: Full grain leather, S3 water resistant treatment. Lining: Acrylic furlined. Insole: Preformed removable - Felt. Outsole: Injected - Dual-density PU with bump cap.	<sup>1</sup> 39 → 48		<b>EN ISO 20345</b> S3 CI SRC	852 g	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
MONTBRUN S3 SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.		CE	<b>EN ISO 20345</b> S3 SRC	702 g	x 5
CAROMB S1P SRC	Oreu Diue	Upper: Suede split leather and polyamide nylon. Lining:			<b>EN ISO 20345</b> S1P SRC	772 g	
MAZAN S1P SRC	Grey-Blue	Polyamide. Insole: Preformed removable - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • • •		682 g	









## - SHOES X-LARGE INDUSTRY







Areas of integrated bending (PANOFLEX® system) Less fatigue at the end of the day More comfortable walking



Retro-reflective tapes Increased visibility for better safety



Outsole with PU protection bumper Reinforced protection of the forefoot



SHOCK ABSORBER Dual density PU outsole Decreased propagation of shock waves





## Symbol of comfort, protection and durability, the X-LARGE INDUSTRY range meets the toughest working environments.



It is the study of the needs of the Civil engineering/Construction sector which led us to develop this iconic DELTA PLUS product whose strengths are extra large footwear (XL) and a maximum durability. Often copied, never equalled!

	R	o <sup>¢</sup>	<b>LIVE</b>	<b>V</b>		
SAULT2 S3 SRC ESD	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 → 48	EN ISO 20345 S3 SRC EN61340 Classe 1	734 g	x 5
VIAGI S1P SRC ESD	Black-Red	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 → 48	EN ISO 20345 STP SRC EN61340 Classe 1	610 g	x 10











#### What does the regulation say?

Areas with potentially explosive atmospheres called ATEX and the protection of workers against the risks of explosion are regulated by 1999/92/EC Directive.

The use of 🍙 qualified footwear dissipating electrostatic charges, is recommended in these areas as part of a comprehensive system of prevention of explosion risk.

Requirements for the design, implementation of systems controlling electrostatic discharge (ESD) that can damage electronic components are defined by the EN61340-5-1 standard.

#### The device said ESD must offer resistance between 105 $\Omega$ and 3.5 107 $\Omega).$

To be used in an ESD system, a shoe must at least be qualified according to EN61340-4-3 standard and offer resistance less than  $10^8 \Omega$  (and greater than  $10^5 \Omega$ ), it is then dissipative.

**SAULT ESD** and **VIAGI ESD** perform particularly well because they have not only reached a maximum resistance between 10<sup>5</sup> and 3.5 10<sup>7</sup> (sigle ohm), but **these tests were conducted under severe restraints: the climatic environment class number 1 (high drought: 15% humidity rate).** 

Due to their low resistance level, **SAULT ESD** and **VIAGI ESD** are a particularly efficient part of global grounding system (gloves, clothing, carpet, seat, etc ...).

#### Thus, their performances help this system to achieve the level of resistance required for 🌰 compliance.



#### **RISK OF ELECTROSTATIC DISCHARGE (ESD\*)**

The static electricity on the operators must be controlled in the following application areas, because it can:



- > Generate electrostatic sparks that can ignite explosive atmospheres: plastic industry, mining, oil and gas industry, chemical industry ...
- > Damage sensitive equipment against electric shock: various electronic industries ...
- > Generate particles that may be deposited on the painting: car industry, house appliances ...

\* Electrostatic Discharge

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### SHOES CLASSIC INDUSTRY - CLASSIC +

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COBRA4 S3 SRC		Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyester. Insole: Removable premolded - Polyamide on EVA. Outsole: Injected - PU/Rubber nitrile. • Para aramid seams. • Flap. Fastening with velcro band.	36 → 48		EN ISO 20345 S3 HRO HI SRC EN ISO 20349-2 WG	628 g	
MIWA S3 M SRC	Black	Upper: Pigmented Buffalo leather 1.8-2 mm, S3 water resistant treatment. Lining: Polyamide mesh. Insole: Removable - Polyamide on EVA. Outsole: Injected - Dual-density PU. • Integrating a protection flap with a pre-molded part to the metatarsals.	36 → 47	C€	<b>EN ISO 20345</b> S3 M SRC	650 g	x 10
GARGAS II S1P SRC		Upper: Pigmented split leather. Lining: Polyamide absorbing. Insole:	05 . /0		EN ISO 20345	644 g	
GOULT II S1P SRC		Removable premolded - Polyester on EVA. Outsole: Injected - Dual- density PU.	35 → 48	• • • • • •	S1P SRC	636 g	••• • • • • •

**COBRA4 S3 SRC MIWA S3 M SRC** ÷.  $\bigcirc$ MA . Ministrice M MA Standards EN ISO 20349-2: 2017 - WG special welders ۵. Ø 1 ➡ Protection against thermal risks and projections Specially designed for any multi-sector welding activity METAL METAL Two elastics inside for closer fitting protection ⇒Improved hold on the kick of the foot Leather collar and para-aramid thread →Enhanced heat protection 



#### RUBBER NITRILE OUTSOLE Good resistance to abrasion and contact heat (standard HRO = 300°C for 1 minute) Guaranteed insulation of the foot in the shoe against heat (H: the temperature inside must

← Guaranteed insulation of the foot in the shoe against heat (H): the temperature inside must not exceed 22°C after 30 minutes in a sand bath at +150°C) ← Optimum adhesion on all types of surfaces Velcro closure ➡Fast opening ➡Protection against projections

Integrated flexion zones Increased flexibility at the metatarsal level Work facilitated whatever the position

#### GARGAS II S1P SRC





**GOULT II S1P SRC** 

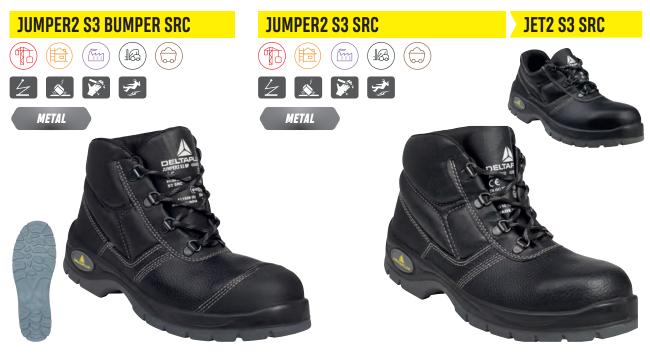
	R	¢¢	<b>LIVE</b>	♥		Î
TANGARA S1P SRC	Grey-Yellow	Upper: Ventilated suede split leather. Lining: Polyamide	00 . 17		630 g	v 10
RIMINI III S1P SRC	Beige-Yellow Navy blue-Orange	sorbing. Insole: Removable - Polyamide on EVA. Outsole: ected - Dual-density PU.	36 → 47	<b>EN ISO 20345</b> S1P_	610 g	x 10
FENNEC3 S1P SRC		Upper: Suede split leather. Lining: Polyamide absorbing. Insole:	36 → 45	CE SRC	564 g	x 10
FENNEC3 S1 SRC	····· Grey	Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU.	46 → 47	<b>EN ISO 20345</b> S1 SRC	474 g	x 5



## SHOES CLASSIC INDUSTRY

	æ	e <sup>o</sup>	<b>LIVE</b>	<b>V</b>		Î
JUMPER2 S3 FUR HC SRC		Upper: Pigmented leather croupon, S3 water resistant treatment. Lining: Polyester fur. Insole: Removable preformed - Felt. Outsole: Sole:	36 → 48	EN ISO 20345	690 g	x 5
JUMPER2 S3 FUR SRC		Injected - Dual density PU. • PU formula sole keeping its properties until -30°C		S3 CI SRC	658 g	
JUMPER2 S3 BUMPER SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment, with TPU toe cap. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU.	$36 \rightarrow 45 \\ 46 \rightarrow 48$	С	660 g	x 10 x 5
JUMPER2 S3 SRC	0 0 0 0 0	Upper: Pigmented split leather, S3 water resistant treatment. Lining:	<ul> <li>a</li> <li>a</li> <li>a</li> <li>a</li> <li>a</li> <li>b</li> <li>a</li> <li>b</li> <li>a</li> <li>b</li> <li>b</li> <li>b</li> <li>c</li> <li>c</li></ul>	S3 SRC	664 g	
JET2 S3 SRC	•• 0 0 0 0 0 0	Polyamide mesh. Insole: Fixed - Polyamide on antibacterial latex. Outsole: Injected - Dual-density PU.	$\begin{array}{c} 36 \rightarrow 45 \\ 46 \rightarrow 47 \end{array}$		644 g	x 10 x 5





	Ø	o <sup>C</sup>	<b>LIVE</b>	* * *			Î
JUMPER2 S1P SRC	8 9 9 9			0 0 0	EN ISO 20345	664 g	
JET2 S1P SRC	Disali	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Fixed -	36 → 45	cc	S1P SRC	638 g	x 10
JUMPER2 S1 SRC	Black	Polyamide on EVA. Outsole: Injected - Dual-density PU.	46 → 47	CE	EN ISO 20345	596 g	x 5
JET2 S1 SRC	• ••• • • • •			0 0 0 0	SRC	564 g	





JUMPER2 S1 SRC	JET2 S1 SRC
2 🔬 差	
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## - SHOES **SPORTSWEAR**



	•	o <sup>0</sup>	<b>LIVE</b>				Î
DELTA FLY S1P SRC	Grey-Green	Upper: Matryx® technology consisting of PU-coated polyamide yarns, polyester monofilament yarns, reflective yarns and Kevlar® areas. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Cemented - EVA/Rubber Nitrile. Non metallic footwear.	39 → 47	CE	<b>EN ISO 20345</b> S1P HRO SRC	520 g	x 5

#### **DELTA FLY S1P SRC** m





Outsole with TPU protection bumper ➡Reinforced protection of the forefoot



NON METALLIC →Compatible with security checks (metal detectors)



Composite toe cap 200j Lightweight and less fatigue



Anti-perforation composite protective midsole Increased flexibility at the metatarsal level





MATRYX® is a high performance technical complex made from high tenacity polyamide and KEVLAR® thread. This unique and patented French technology enables specific areas to provide efficient solutions in terms of ergonomics and lightness.





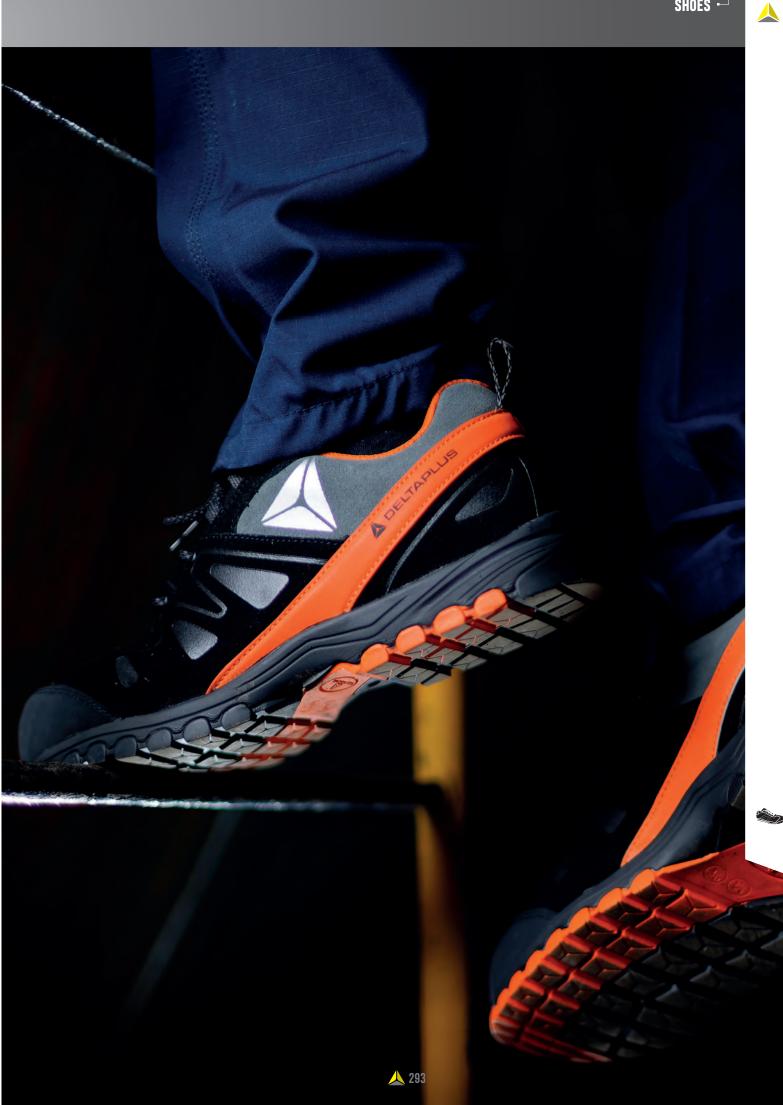
Our goal is to combine the best of sport and safety in order to push performance limits. It is due to our partnership with the French company Chamatex, which patented the MATRYX® Technology, that we have developed this innovative premium product. The most of MATRYX®: the option of choosing, according to our needs, predefined strategic function zones during weaving. This construction of the upper material reduces by approximately 50% the weight of our upper material. MATRYX® is a unique technology and DELTA FLY is unique in the world of PPE.

## - SHOES SPORTSWEAR

### A Sport attitude for many professional activities.

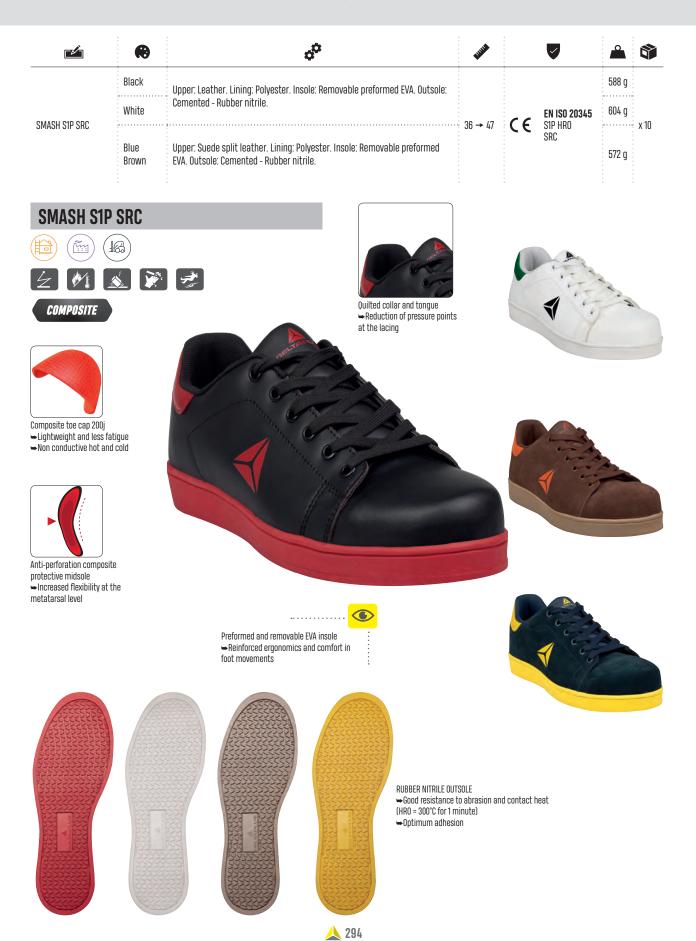








### A Sport attitude for many professional activities.



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D-SPIRIT S3 SRC	Diack	Upper: Leather, S3 water resistant treatment. Lining: Polyester. Insole: Removable - Polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	36 → 47	0 0 0 0 0 0 0 0 0 0 0 0	<b>EN ISO 20345</b> S3 HRO SRC	540 g	
D-SPIRIT S1P SRC	SPIRIT SIP SRC	Upper: Leather/mesh. Lining: Polyester. Insole: Removable - Polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	38 → 47	CE EN ISO 20345 SIP HRO SRC	498 g	x 5	
	Blue-Grey	Upper: Suede split leather. Lining: Polyester. Insole: Removable - Polyester on	36 → 47			514 g	
D-STAR S1P SRC Beige	EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	38 → 47		534 g			





NON METALLIC Compatible with security checks (metal detectors)



Composite toe cap 200j Lightweight and less fatigue Non conductive hot and cold



Anti-perforation composite protective midsole ←Increased flexibility at the metatarsal level



..........

EVA insole •Reinforced plantar comfort throughout the day

SOLE WITH PU MIDSOLE ➡Reinforced plantar cushioning



Quilted collar and tongue

the lacing

⇒Reduction of pressure points at





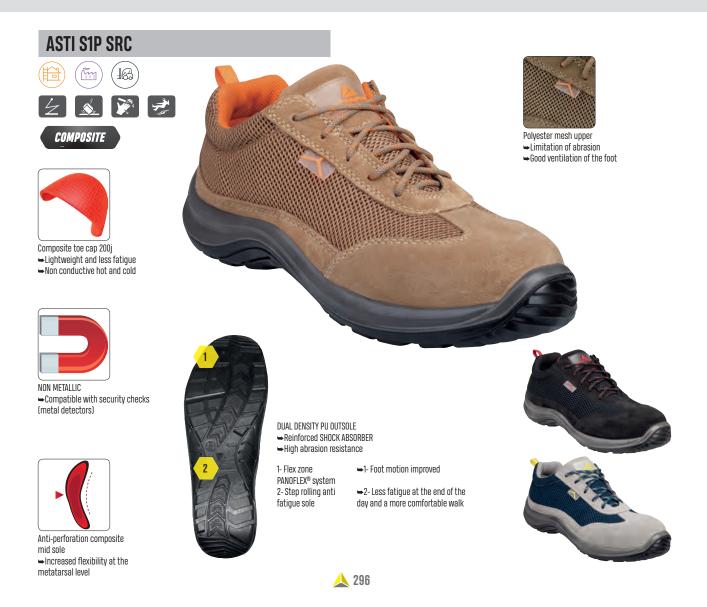


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A lightweight and ventilated system make these shoes particularly suitable for professional activities requiring comfort.



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ASTI S1P SRC	Beige Grey-Blue Black	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Dual- density PU. Non metallic footwear.	00 . /0	CE		544 g	
VIRAGE S1P SRC	Grey-Green Black-Red	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 → 48		<b>EN ISO 20345</b> S1P SRC	612 g	x 10
COMO S1P SRC	Navy blue Brown-Beige Black-Fushia	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Single density PU.	$\begin{array}{c} 39 \rightarrow 48 \\ 39 \rightarrow 48 \\ 35 \rightarrow 43 \end{array}$			508 g	•• • • • • • • • • • • • • • • •
SUMMER S1P SRC	Blue-Yellow Grey-Orange	Upper: Polyester and cotton. Insole: Removable preformed - polyester on EVA. Midsole: injected - Single density PU.	35 → 48			440 g	• • • • • • •





2

movement

PANOFLEX® system 2- Step rolling for optimal comfort during

⇒2- Less fatigue at the end of the day and a more comfortable walk



## - SHOES LIGHT WALKERS



		o <sup>0</sup>	till the second s	<b>V</b>		
MIAMIXL S1P SRC	Black	Upper: Suede split leather combined with polyester and cotton. Lining: Polyester. Insole: "Deltaplus Air Flow System" - Removable premolded - Polyester on PU. Midsole: injected - Single density PU. Non metallic footwear.	36 → 48	CC EN ISO 20345 STP SRC	540 g	x 10







NON-METALLIC Compatible with security checks (metal detectors)



Composite toe cap 200j Lightweight and less fatigue Non conductive hot and cold



Anti-perforation composite protective midsole Increased flexibility at the metatarsal level





## If you are looking for lightness, flexibility and comfort, the Light Walkers range will meet these expectations throughout the day!



The concept of the MIAMI is a simple, innovative idea, with a very good price-comfort ratio for a unique safety shoe : 400g of barefoot sensation!

This concept now has a family to meet different user needs : MIAMI, SUMMER, COMO, ARONA and MIAMI X-LARGE.



#### Wide Fitting (mondo 10) :

The footwear is suitable for all foot shapes. The shape has been specially designed to meet the sizes and measurements of the average European foot.



"Delta Plus Air Flow system" insole technology Increased breathability and optimal comfort



[...]

Comfortable at work and at home, this is what makes MIAMI a unique product. Responding to the needs of the manufacturing trades was our brief to design a range of safety footwear that is worn as if you were at home.

## - SHOES LIGHT WALKERS

## A lightweight and ventilated system make these shoes particularly suitable for professional activities requiring comfort.

<b>L</b>	•	o <sup>o</sup>	<b>UUU</b>	0 9 9 9 9 9			
MIAMI S1P SRC	Grey-Navy blue Black	Upper: Polyester and cotton. Insole: Removable preformed - polyester on		2 2 3 4 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		442 g	
MIAMI S1P CAMO SRC	Khaki	EVA. Midsole: injected - Single density PU.	35 → 48	CE	<b>EN ISO 20345</b> S1P SRC	460 g	x 10
ARONA S1P SRC	Beige Black	Upper: Canvas. Insole: Removable preformed - polyester on EVA. Midsole: injected - Single density PU.	• • • • • • • • • • • • • • • • • • •		SKL	440 g	
MIAMI S1P S	SRC		MIA	<mark>mi s1</mark>	<mark>P camo s</mark>	RC	
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### - SHOES AGRO - EXECUTIVE

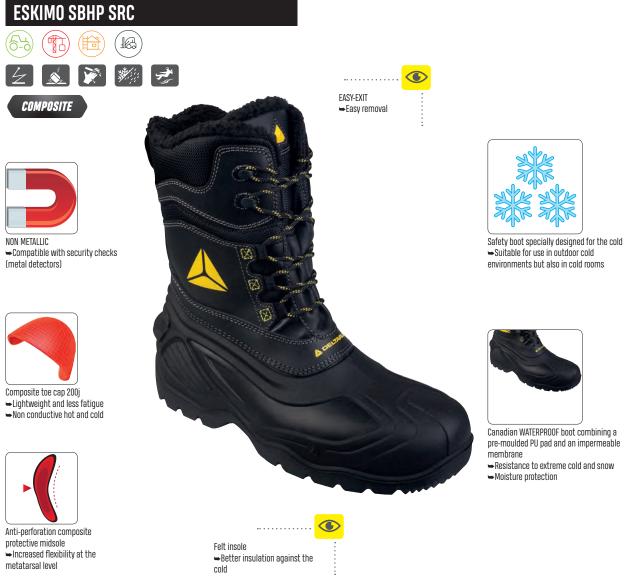
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MIAMI S2 SRC	White	Upper: Microfibre/PU. Insole: Removable preformed - polyester on EVA. Midsole: Injected - Single density PU. • Water resistant upper in microfibre • Machine wash up to 30° C, easy to maintain	35 → 48	8		S				<b>EN ISO 20345</b> S2 SRC	402 g	x 10
ROBION3 S2 SRC		Upper: Microfiber Lining: Polyamide. Insole: Preformed removable - Polyester	8		468 g	• • • •						
MAUBEC 3 SBEA SRC		on EVA. Outsole: Injected - PU bi-density. • Water resistant upper in microfibre • Machine wash up to 30° C, easy to maintain • Absorbent non woven lining for quick dry	35 → 47	CE	<b>en ISO 20345</b> SB A E SRC	524 g	x 5					
BRISTOL S3 SRC		Upper: Derby light pigmented grain leather. Lining: Polyamide. Insole: Removable - EVA foam. Outsole: Mono density PU. Non metallic shoe.	20 / 0		<b>EN ISO 20345</b> S3 SRC	494 g	40					
RICHMOND S1 SRC	Black	Upper: Oxford light pigmented grain leather. Brogue shoe. Lining: Polyamide. Insole: Removable - EVA foam. Outsole: Mono density PU. Non metallic shoe.	39 → 48	•	<b>EN ISO 20345</b> S1 SRC	486 g	x 10					



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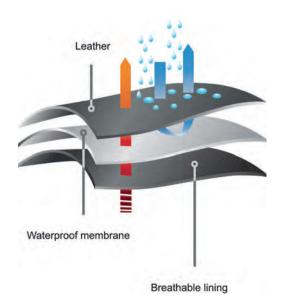






#### ESKIMO will be able to protect you safely in all weather conditions.







The DELTA-Tex WATERPROOF membrane, with SNOWTEX polyester lining offers optimal protection against harsh weather and harsh environments. The DELTA-Tex polyester membrane is waterproof and breathable. It offers waterproofing higher than 10,000 mm/ cm² (ISO 811). Impermeability is measured by placing this membrane under a tube of water (water column). The minimum water height at which the first drops of water pass through this membrane represents its impermeability.



#### **PU DOUBLE DENSITY SOLE :**

- The PU sole and padding made with specific composition guarantee the PU properties down to -30  $^\circ\mathrm{C}.$ 

- The crampons as well as the SRC sliding resistance provide secure stabilisation on the ladder rungs. They lend a good grip on all types of indoor surfaces (cold rooms) and outdoors.



Following the Nordic markets' demand for boots suited to extreme cold, rain and wind conditions, we designed ESKIMO in order to protect your feet against these elements. The Canadian boot design, the DELTA-TEX™ membrane combined with SNOWTEX™ lining are durably waterproof and insulating.



## BOOTS WINTER BOOT

	R	¢¢	<b>LUUR</b>	• • • •			Û
SAKHA S3 SRC	Beige	Upper: Cowhide leather, water resistant treatment S3 with TPR heel	g: Acrylic fur. Insole: Removable preformed - Polyester on			870 g	•
SAMARA S3 SRC		EVA. Outsole: Injected - Dual density PU with front PU reinforcement.		CE	<b>EN ISO 20345</b> S3 CI	882 g	x 5
CADEROUSSE S3 SRC	Black	Upper: Full grain leather, S3 water resistant treatment. Lining: Acrylic furlined. Insole: Preformed removable - Felt. Outsole: Injected - Dual- density PU with bump cap.			SRC	852 g	<ul> <li>-</li> <li>-</li></ul>

## SAKHA S3 SRC















DUAL DENSITY PU OUTSOLE 1- Hear wearing outsole with toe and heel grip 2- Lateral ladder grips

→1- Reinforced adhesion on loose ground
 →2- Secured stabilisation on ladder rungs



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LAUTARET 3		Canadian fur-lined winter working boots. Lining: 100% polyester. Upper: PVC-coated fabric and polyamide Water-repellent treatment. Outsole: Thermoplastic (keeps it's property until -30°C).	38 → 47	C€	<b>en ISO 20347</b> SRC Ob e ci	626 g	X 6
ECRINS S5 SRC	Black	Safety boots. Upper: Bi-injection PVC. Lining: Polyester furlined. Insole: Fixe with aluminium protection. Sole: PVC - Nitrile with cleats - Steel S5 sole. Easy put on with band.	39 → 47		<b>EN ISO 20345</b> S5 CI SRC	1.1 kg	x 5
MORNAS SRC	Green	Bi-injection PVC boot. Collar: PU. Lining: Polyester furlined. Outsole: PVC with cleats.			<b>en ISO 20347</b> SRC Ob e ci	884 g	x 6





# RAIN BOOT

		o <sup>p</sup>	<b>LUID</b>	0 0 0 0 0 0			Î
GIGNAC2 S5 SRC	Green	Safety boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Puncture-resistant stainless steel plate. Sole: PVC - Nitrile with cleats - Steel S5.	39 → 47		<b>EN ISO 20345</b> S5 SRC	1.20 kg	x 5
JOUCAS2 SRC		Working boots. Upper: Bi-injection PVC. Lining: Jersey polyester.	00 49	CE	EN ISO 20347 SRC	1.0 ka	хß
JOUCAS2 NO SRC	Black	Sole: PVC with cleats.		•••	OB E	1.0 KY	ΛU
VIENS2 S4 SRC	White	Safety boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Outsole: PVC - Nitrile with staples.	36 → 47		<b>EN ISO 20345</b> S4 SRC	1.0 kg	x 5
JAVON 2 E	Green	Garden half-boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Sole: PVC with cleats.	39 → 47			788 g	x 6



### L- ACCESSORIES SOLES - LACES - SOCKS

		¢¢	ALL			
46500	Black-Grey	Spare soles. Polyester on PU.	36 → 48		60 g	x 100
45400	Disel	Spare soles. Polyamide.	35/36 → 47/48	• • •		x 350
22180	Black	Round polyamide laces. Length: 100 cm.	Ono oizo		10 g	V E00
LACET XL	Black-Grey	Round polyamide laces. Length: 120 cm.	··· One size		0 0 0 0	x 500
PRATO	Khaki-Green Black-Grey	Antistatic and antibacterial socks. 64% cotton / 17% polyamide / 16% Nostatex® / 3% Lycra®. Anti-stress soft edge. Lycra® stretch. Antishrinking treatment (Prewashed).	39/42 → 43-46		82 g	x 100
CHAUSSETT	Champagne	Acrylic fleeced socks for boots.	One size		120 g	
CHAUSSON	Grey	100% polyester Isothermic slipper. Rubber band ankle support - width 22 mm.	38/39 → 46/47		46 g	x 50

### 46500







### 🙏 307

# DESIGNING MANUFACTURING YOUR SAFETY AT WORK



### FALL PROTECTION

### 308 • HELP WITH CHOICE

#### **BODY SUPPORT**

- 320 Fall arrester and suspension harnesses
- 324 Fall arrester harnesses

### ANCHORAGE - WORK POSITIONING

- 330 Work positioning systems
- 355 Anchorage devices
- 360 Lanyards

### FALL ARRESTER SYSTEMS

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- 338 Energy absorbing lanyards
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- 352 Fall arresters on rope
- 354 Fall arresters on cable
- 371 Accessories and storage bags

### **CONNECTING SYSTEMS**

361 • Connectors

### SUSPENSION

362 • Rope access work

### RESCUE

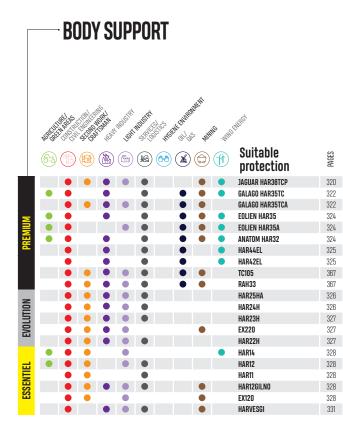
- 364 Fall arrest and rescue, confined space
- 367 Rescue & evacuation

406 • TECHNICAL INFORMATION



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### **FALL PROTECTION SYSTEMS HELP WITH CHOICE**





### **ANCHORAGE -WORK POSITIONING - CONNECTING SYSTEMS**

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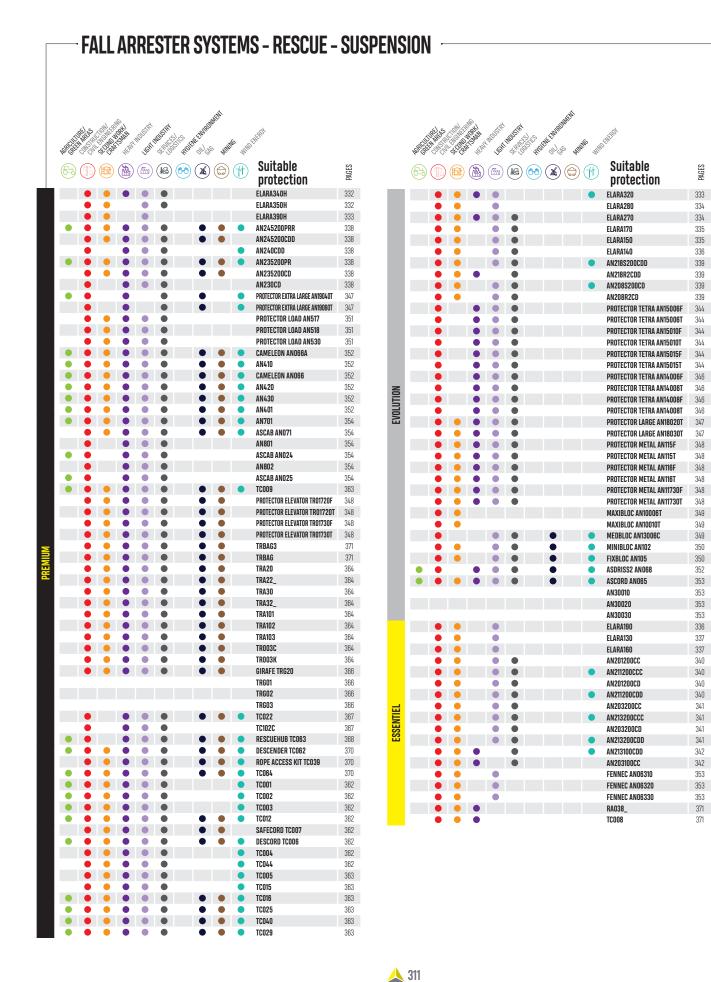
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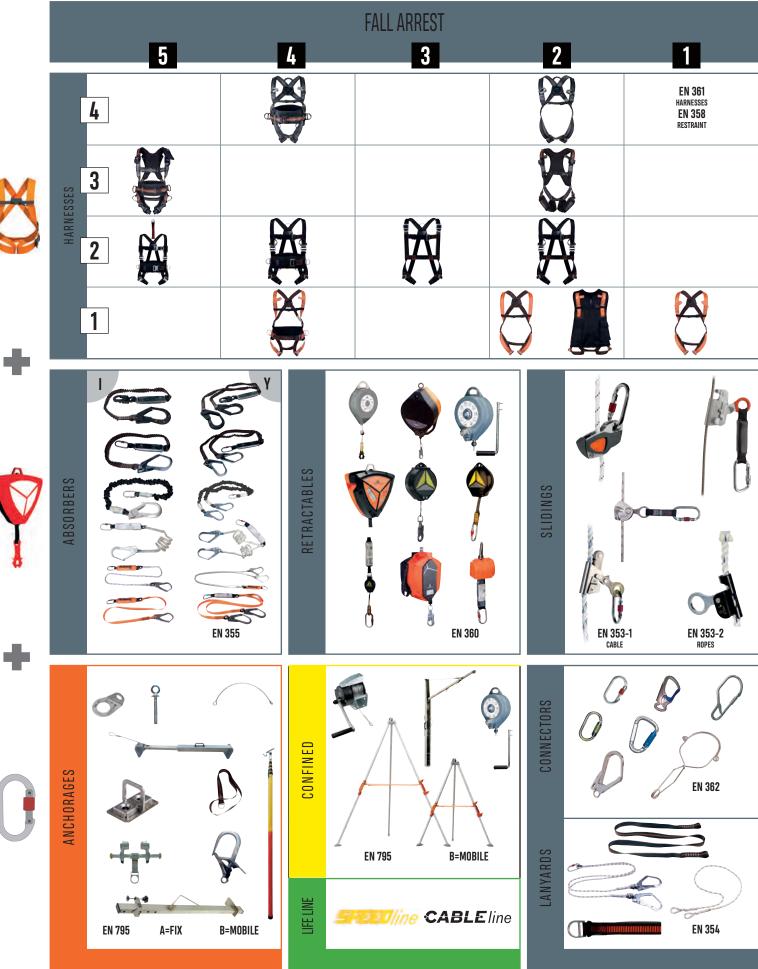
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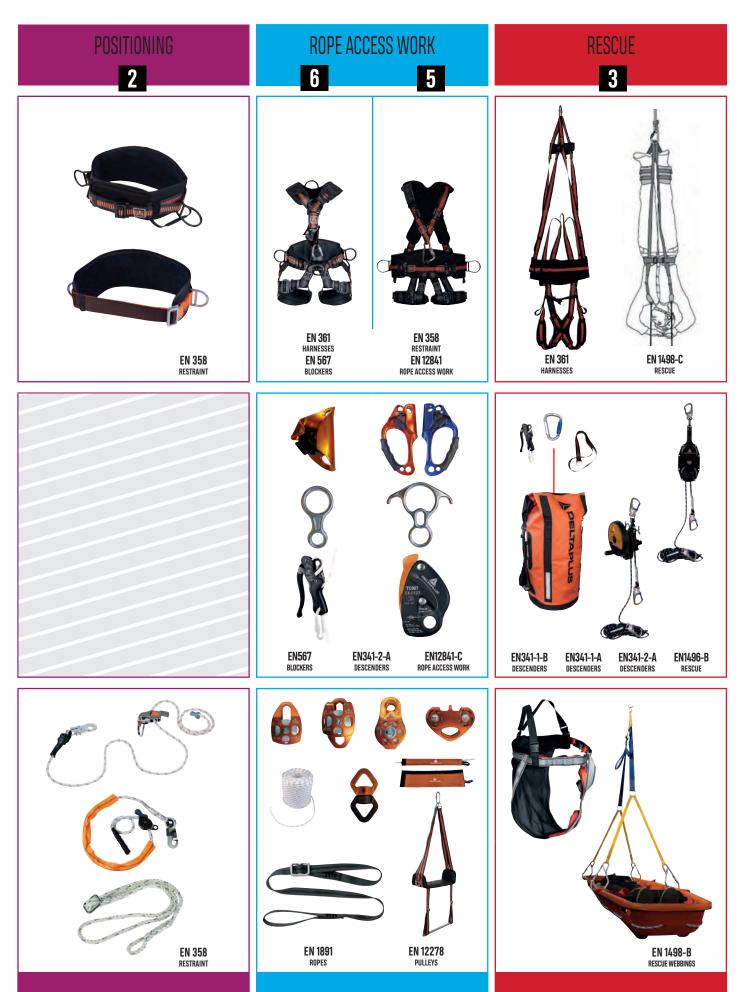


# FALL PROTECTION SYSTEMS HELP WITH CHOICE



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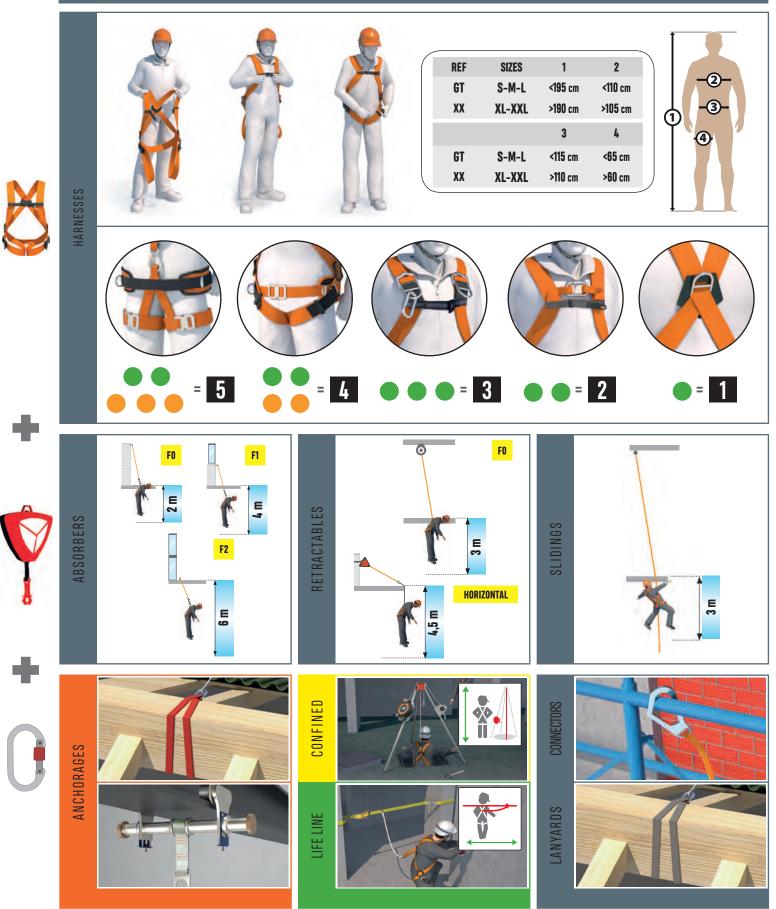
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# FALL PROTECTION SYSTEMS

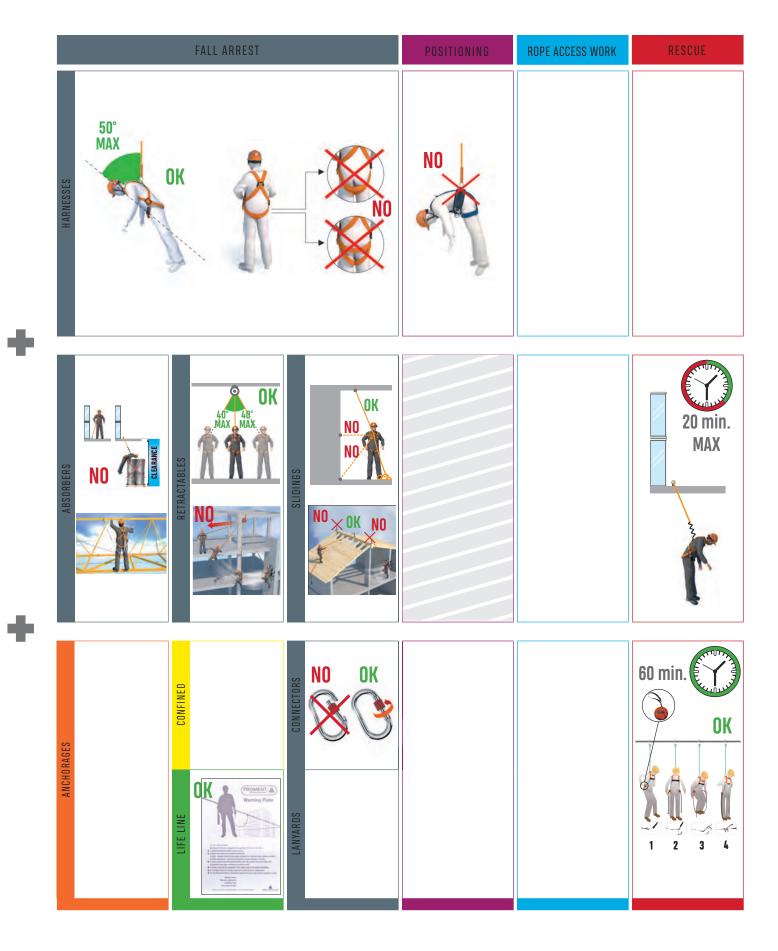
### FALL ARREST





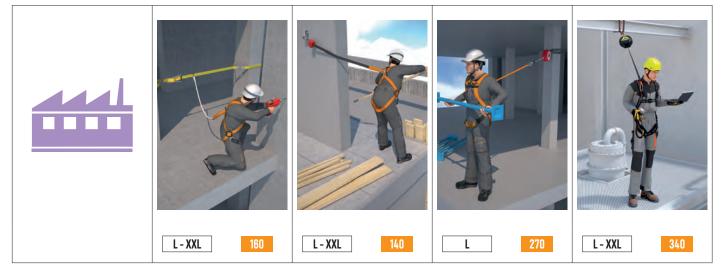
#### - HELP WITH CHOICE

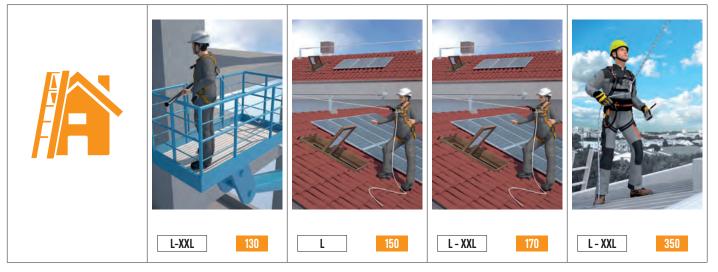
### **SAFETY INFORMATION - READY TO USE PROTECTION**



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# HELP WITH CHOICE





PRODUCT REFERENCE

### WE ARE PROUD To present our innovative identity card



for all our Fall Arrest Products (except the carabiners).

Since mid-2015, in addition to the compulsory printed label, our products have an electronic microchip indicating:

AN13006

#### SERIAL NUMBER D12.352.002 MANUFACTORING DATE ⊳ Using an Android or Windows mobile phone having technology, D12.3 NFC (Near Field Communication) any user can scan the tag ((N)) and download our free "DELTA PLUS ID **CARD" APP** from our Website. **USING APP ON YOUR SMARTPHONE** 1. After flashing NFC tag, user can write/read: THE WEARER'S PRODUCT NAME. THE COMMISSIONING DATE OF THE PPE. $\triangleright$

2. The Official Service Center (SAV) will write:

> THE DATE OF EACH ANNUAL CONTROL.

**3.** Both user and controller can check anytime:

> THE STATUS OF PRODUCT CONTROLS.

A PPE DATABASE is included to check anytime all the inventoried products.

#### ANNUAL CHECK REMINDER SERVICE

After creating all your products on the APP, you will receive an email 15 days before each compulsory annual control.

A full access to a more complete PPE DATABASE is available on our website using the same login/password as on ID Card Application.

ID Card App and Website databases are synchronized for using both tools together. It's up to you to use both or only one of them.

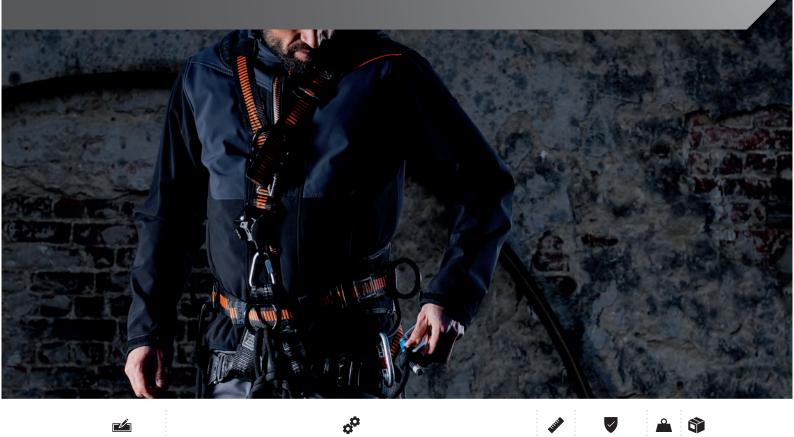
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DATES

# FALL ARRESTER AND SUSPENSION HARNESSES



### 

JAGUAR HAR36TCP

Two colour harness with positioning belt for rope access work. 2 fall arrest anchorage points (dorsal-sternal). Positioning and seat belt with thermoformed large back and shorts. 3 work positioning attachment points (2 lateral and 1 on back). 1 suspension point (ventral). 1 ventral blocker for rope access. 6 adjustable buckles, of which 2 are automatic. 1 carabiner.

飰

TITLE		7		
S/M/L XL/XXL	CE	EN361 150 kg EN358 150 kg EN813 150 kg EN12841 TYPE B EN362	2.4 kg	x 5
		FN.362		

### **JAGUAR HAR36TCP**

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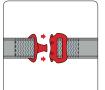
Comfortable with the thermoformed backrest and thigh with sponge lining and comfort pad Increased comfort

Tested at 150 kg →No problem related to the weight of the tools transported or other





2 accessory attachment holders incorporated into the belt Anchorage carabiners, lanyards and tools



Automatic buckles • Quick and easy set-up and adjustment

**BODY SUPPORT** -

### Comfort and multiple functionality for rope work.



**1- Comfort and speed of implementation.** 6 adjustment buckles

180° belt rotation

#### 2- Dedicated to rope access

Ventral point of suspension Integrated ventral stopper

#### 3- Functional and safe

Certified 150 kg 3 work positioning points Fall indicator

The strap, developed by our R&D department and woven in our factories, allows to have a real flexibility and thus to accentuate the notion of comfort for the user.





To optimise the progression of the user on his rope, we integrated a stopper on the harness, because it gives him a better stability.

David Naulin, Fall Protection Product Expert



# FALL ARRESTER AND SUSPENSION HARNESSES

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 $(\Box)$ 

	a <sup>C</sup>	<b>U</b> UU <b>S</b>	<b>V</b>		
GALAGO HAR35TC	Two colour harness with belt: 2 fall arrester anchorage points (back - front). Positioning belt with thermoformed back and shorts. 2 work positioning attachment points (lateral). 1 suspension point. 8 adjustable buckles. 1 carabiner.	S/M/L	EN361 150kg	2.2 kg	
GALAGO HAR35TCA	Two colour harness with belt: 2 fall arrest anchorage points (dorsal-sternal). Positioning belt with thermoformed back and shorts. 2 work positioning attachment points (lateral). 1 suspension point. 8 adjustable buckles, of which 4 are automatic. 1 carabiner.	XL/XXL	CC 150kg EN813 150 kg	2.6 kg	P · · · · · · · · · · · · ·

#### **GALAGO HAR35TC**





Comfortable with the thermoformed backrest and thigh with sponge lining and comfort pad →Increased comfort

Tested at 150 kg No problem related to the weight of the tools transported or other





2 accessory attachment holders incorporated into the belt Anchorage carabiners, lanyards and tools

x 5

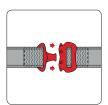


2 quick release buckles to adjust or remove the shoulder straps to get a shorts belt EX320TC — Can only be used as a harness for positioning work









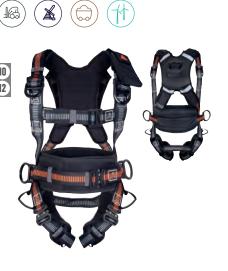
Automatic buckles →Quick and easy set-up and adjustment



### **BODY SUPPORT FALL ARRESTER HARNESSES**

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EOLIEN HAR35	Two colour harness with positioning belt. 3 fall arrester attachment points (back- front right side - front left side). 4 adjustable buckles in light alloy. 2 automatic buckles. Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points. 1 adjustment loop. Sponge back lining.	S/M/L/ XL/XXL		<b>EN361</b> 150 kg		
Eolien Har35a	Two colour harness with positioning belt. 3 fall arrester attachment points (back- front right side - front left side). 4 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points. 3 adjustable automatic buckle. Sponge back lining.		CE	<b>EN358</b> 150 kg	2 kg	x 5
ANATOM HAR32	Two colour harness. 2 fall arrester anchorage points (back - front). 4 adjustable buckles.			<b>EN361</b> 150 kg	1.3 kg	- 6 6 7 8 8 8









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Automatic buckles

holders incorporated into the belt ➡Anchorage carabiners, lanyards and tools

➡Quick and easy set-up and adjustment

C .... Phone holder pocket ➡Accessible and safe phone holder

Tested at 150 kg ➡No problem related to the weight of the tools transported or other



Automatic buckles ⇒Easy implementation

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	o <sup>C</sup>	<b>HINK</b>	V		Û
HAR44EL	Dielectric harness with positioning belt. 2 fall arrester anchorage points (back - front). 4 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points for work positioning. Sponge back lining. Buckles with plastic coating. Material insulates to 20kV.	S/M/L/ XL/XXL C€	EN361 EN358 CE	2 kg	x 5
HAR42EL	Dielectric harness. 2 fall arrester anchorage points (back - front). 4 adjustable buckles. Buckles with plastic coating. Material insulates to 20kV.		EN361	922 g	

### HAR44EL







2 accessory attachment holders incorporated into the belt Anchorage carabiners, lanyards and tools



180° rotation ➡Easy rotation of the basin

### HAR42EL









➡Insulator up to 30KV

Tested at 150 kg ➡No problem related to the weight of the tools transported or other

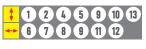
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# FALL ARRESTER HARNESSES

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HAR25HA	Harness with positioning belt. 2 fall arrest anchorage points (dorsal - sternal). 6 automatic adjustable buckles. Positioning belt with thermoformed back closed by large velcro. 2 lateral work positioning anchorage points. 1 extension lanyard.	S/M/L/	EN358 150 kg C C EN361 150 kg	1.8 kg	νĀ
HAR24H	Harness with positioning belt. 2 fall arrest anchorage points (back - front). 6 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro. 180° rotation. 2 lateral anchorage points for work positioning.	XL/XXL	CC 150 kg EN813 150 kg	1.7 kg	ΧJ









Easy rotation of the basin



Automatic buckles →Ouick and easy set-up and adjustment





2 accessory attachment holders incorporated into the belt Anchorage carabiners, lanyards and tools

•••••	۲
Tested at 150 kg ➡No problem related the weight of the tool transported or other	

#### HAR24H







2 accessory attachment holders incorporated into the belt Anchorage carabiners, lanyards and tools







Tested at 150 kg No problem related to the weight of the tools transported or other

	o <sup>C</sup>	<b>U</b> UU	<b>V</b>		Û
HAR23H	Harness with 3 fall arrest anchorage points (back - right front side - left front side). 5 adjustable buckles.		EN361	1.3 Kg	· · · · · · · · · · · · · · · · · · ·
HAR22H	Harness with 2 fall arrester anchorage points (back - front). 5 adjustable buckles.	S/M/L/ XL/XXL	150 kg	1 Kg	x 5
EX220	Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points. 1 adjustment loop. Sponge back lining.		<b>EN358</b> 150 kg	712 g	- - - - - - - - - - - - - - - - - - -







Fall indicator Easy visual verification

••••••••

→No problem related to the weight of the tools

transported or other

Tested at 150 kg



### HAR22H





Tested at 150 kg No problem related to the weight of the tools

transported or other



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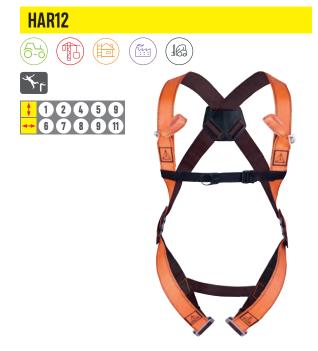
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### - BODY SUPPORT FALL ARRESTER HARNESSES

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HAR14	2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable lateral plates. Positioning belt with broad thermoformed back. Sponge lining. 2 anchorage points for work positioning.			<b>EN358</b> 140 kg <b>EN361</b> 140 kg	1.1 kg	
HAR11	1 fall arrester anchorage point harness (back). 2 adjustment loops. 2 adjustable lateral plates.	S/M/L/	C€		624 g	
HAR12	2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable lateral plates.	XL/XXL		C€	<b>EN361</b> 140 kg	730 g
HAR12GILNO	Harness with work vest not removable: Harness (Ref. HAR12). Vest: 100% polyester. Polyester Mesh lining. Zip closure. 4 pockets including 1 phone pocket. Adjustable size by zip.	•			1.1 kg	
EX120	Positioning belt with thermoformed back. 2 lateral anchorage points for work positioning. 1 adjustment loop. Sponge back lining.	One size	• • • • • • • • • • • • • • • • • • •	<b>EN358</b> 140 kg	400 g	<ul> <li>a</li> <li>b</li> <li>a</li> <li>b</li> <li>a</li> <li>b</li> <li>c</li> <li>c</li></ul>



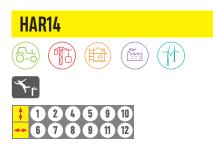








### Intuitive and fast set-up





#### 1- Intuitive

Bi-colour strap ensuring correct positioning of the harness Only 2 adjustment loops. Adjustable side plates for better adjustment of the harness

#### 2- Ergonomics

Ultra light thanks to a thin but ultra compact strap Certified 140kg

The 100% integrated construction allows the flexibility to create different typologies of straps, whether in the weaving technique, or, as in the case of the harnesses in the Essential range, to have a colour on each side.

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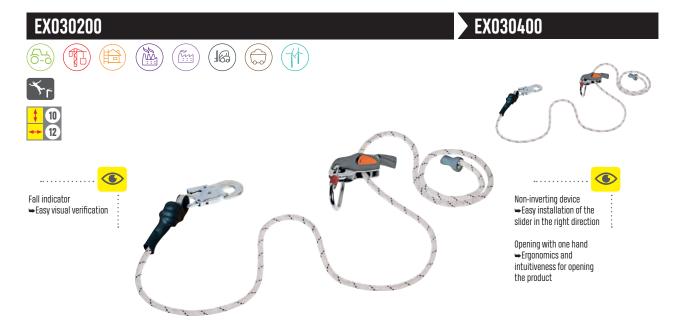
[...]

The two-tone strap creates the difference. It allows novice users or users who use the fall arrest harnesses on an ad hoc basis, to ensure a correct and rapid installation of the latter, and therefore to work safely.

David Naulin, Fall Protection Product Expert

### - ANCHORAGE - WORK POSITIONING WORK POSITIONING SYSTEMS

	o <sup>c</sup>	till &	<b>V</b>		
EX030200	allows adjustment of the distance between the operator (with work positioning belt) and the structure. Lanyard: Braided rope Ø 11mm with manufactured ends. (See ANO66	0,20 → 2 m		998 g	
EX030400		0,20 → 4 m		1.2 kg	x 5
EX118200A EX118400A	Adjustable work positionning lanyard via stainless steel tensioner. Adjustable length. Stranded rope Ø 14 mm equipped with a wear indicator. Thimble loop. Splice protection. Protective sheath. 1 hook.	0,20 → 2 m 0,20 → 4 m	<b>C €</b> EN358	872 g 1.1 kg	
EX021	Adjustable work positionning lanyard via reducer. Adjustable length. Stranded rope Ø 12 mm. Protective sheath on the splices.	1,10 → 2 m		306 g	x 15





# FALL ARRESTER HARNESSES

	o <sup>c</sup>	<b>LIVIA</b>	<		Û
HARVESGI	Vest. Zip fastening. 4 pockets including 1 phone pocket. Adjustable size by zip. High visibility: Class 1 - Silver colour - Shoulder-belt assembly.	One size	EN ISO 20471 CLASS 1		x 10
LV102050	Extension strap in high tenacity polyester with D-ring. Width 45 mm. End loop with shrinkage and steel anchor D.	0,50 m	СЕ Туре в <b>EN354</b>	300 g	x 15
HAPAD	Comfort pad for back.			170 g	x 10
HA2O3	Pair of straps enabling blood circulation in the legs after a fall while waiting for help. Adjustable for any type of harness by positioning on the side straps. Ease and speed of implementation. Carrying case.	One size		80 g	x 25
HA200	Tool holder. Extended length: 1 m. Maximum working load: 4 kg.			60 g	x 20



ADBLTS

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HA203

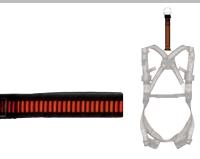
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HAPAD



HA200

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ELARA340H	INDUSTRY 6 M - ready for use fall arrest kit: Harness with 3 fall arrester anchorage points (back- right front side - left front side). 5 adjustable buckles (Ref. HAR23H). Self retractable fall arrester with polyester webbing 25 mm. ABS protection. Swivel with fall indicator. 1 carabiner AM002 (Ref AN13006C). Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D (ref. LV102100). Comfort pad for back (Ref. HAPAD). 1 tool holder (Ref. HA200). 1 carabiner AM002.		EN360 EN361 EN362 EN795 Type B	4.1 kg	x 5
ELARA350H	SERVICES - ready for use fall arrest kit: Harness with positioning belt. 2 fall arrest anchorage points (back - front). 6 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro. 180° rotation. 2 lateral anchorage points for work positioning (ref. HAR24H). Fall arrest sliding on anchorage line stranded rope 0 14 mm, opening type, equipped with automatic locking, non- inverting device, energy absorber with fall indicator (ref. AN065). Anchorage line stranded rope 0 14 mm (ref. AN30010). Adjustable work positionning lanyard via reducer. Adjustable length. Stranded rope 0 12 mm. Protective sheath on the splices (ref. EX021). Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D (ref. LV102100). 1 tool holder (ref. HA200). 2 carabiners AM002.	S/M/L/ XL/XXL	С Є EN353-2 EN358 EN361 EN362 EN795 ТҮРЕ В	5.2 kg	x3
ELARA340			$\mathbf{h}$		
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ELARA350					
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ELARA390H		S/M/L/ XL/XXL	EN355 EN361 EN362	2.8 kg	
ELARA320	POSITIONNING 6 SCAFFOLDING - ready for use fall arrest kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. Positioning belt (Ref. HAR14). Adjustable work positionning lanyard via reducer. Length of 1.1 to 2 m. Stranded rope Ø 12 mm (Ref. EX021). Fall arrester with energy absorber in double stranded rope (Y) Ø 12mm. Length 2 m. 1 AM002 carabiner and 2 AM022 hooks (Ref. AN211200CDD) 2 connectors AM002.	S/M/L	С Є EN355 EN358 EN361 EN362	3.5 kg	x 5

### ELARA390H

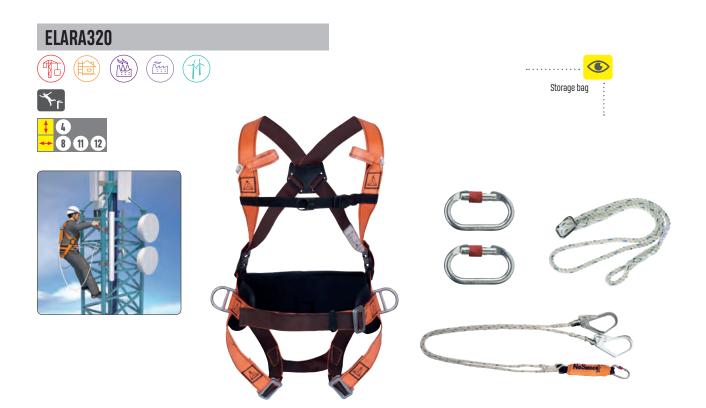












	o <sup>C</sup>	<b>LUUR</b>				
ELARA280	SCAFFOLDING - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Fall arrester with energy absorber in double stranded rope (Y) Ø 12mm. Length 2 m. 1 AM002 carabiner and 2 AM022 hooks (Ref. AN211200CDD)			EN355 EN361 EN362	2.5 kg	x 5
ELARA270	VERTICAL 10 M - Ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Self retractable fall arrester with steel strap. Length 10 m. ABS case. 1 automatic swivel connector and fall indicator AM016 (Ref. AN12010T). Lanyard and anchorage point in tubular strap, length 2 m (Ref. L0030200). 2 connectors AM002.	S/M/L	CE	EN354 EN360 EN361 EN362 EN362 EN795 Type B	9.1 kg	x1



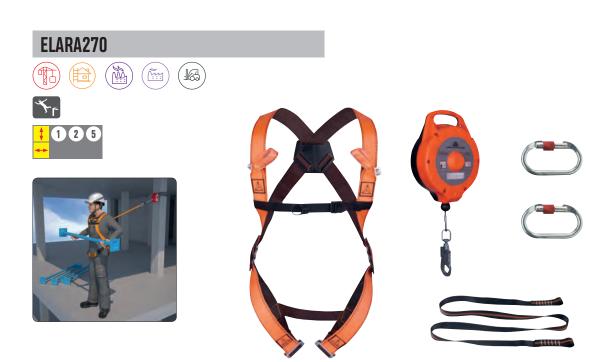












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	ROOF - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm, length 20 m. (Ref. AN063/20). 2 connectors AM002.	S/M/L/ XL/XXL	( (	EN353-2 EN361	3.4 kg	чЕ
ELARA150	ROOF - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm, length 10 m (Ref. ANO63/10). 2 connectors AMO02.	S/M/L		EN362	2.4 kg	ΧŨ

### ELARA170







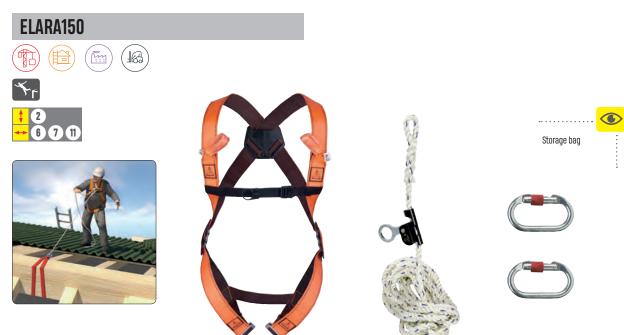






Storage bag

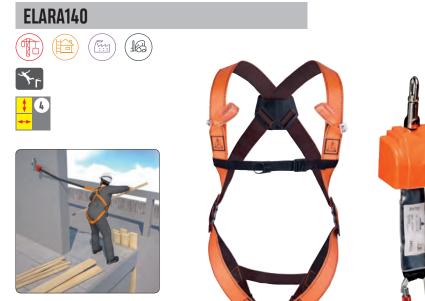






# -- FALL ARRESTER SYSTEMS

	o <sup>©</sup>	<b>UIU</b>	V	Â	Û
ELARA140	VERTICAL 2.50 M - Fall arrester kit ready for use: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Self retractable fall arrester with 46 mm strap with energy absorber. Protection case. 1 connector AM002 (Ref. AN102). 1 connector AM002.	s/m/L/	EN360 EN361 EN362	1.9 kg	
ELARA190	SCAFFOLDING - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Fall arrest with energy absorber with lanyard strap, length 2 m, equipped with 1 connector AM002 and 1 AM022 hook (Ref. AN203200CD).	S/M/L/ XL/XXL	СС EN355 EN361 140 Kg EN362	1.8 kg	- X 5









	o <sup>C</sup>	<b>U</b> UU	<b>V</b>		
ELARA130	RESTRAINT - ready for use kit: 1 fall arrester anchorage point harness (back). 2 adjustment loops, 2 adjustable side plates with lanyard in irremovable stranded rope Ø 12 mm. Length 1.50 m. 1 connector AM002.	S/M/L/ XL/XXL	<b>EN358</b> 140 kg	900 g	
ELARA160	CLASSIC - ready for use fall arrester kit: 1 fall arrester anchorage point harness (back). Two adjustment loops, 2 adjustable side plates with fall arrester with not removable energy absorber in stranded rope Ø 12mm, length 2 m. 1 carabiner AM002.	S/M/L/ XL/XXL	С Є	946 g	х5

# ELARA130







# ELARA160









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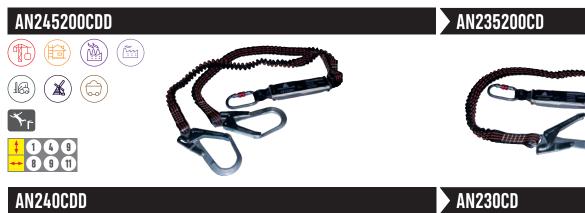
### - FALL ARRESTER SYSTEMS ENERGY ABSORBING LANYARDS

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AN245200PRR	Dielectric fall arrest with energy dissipater in double elastic strap (Y). Thimble loops. Equipped with 1 carabiner AM010D + 2 hooks AM022D. Material insulates to 30kV.		AMO10D x 1	P x 2 AM022D		1.9 kg	
AN235200PR	Dielectric fall arrest with energy dissipater in elastic strap. Thimble loops. Equipped with 1 carabiner AM010D + 1 hook AM022D. Material insulates to 30kV.	 1.40 → 2 m	AMO10D x 1	AM022D x 1		1.2 kg	x5
AN245200CDD	Fall arrest with energy dissipater in double elastic strap (Y). Thimble loops. Equipped with 1 carabiner AM002 + 2 hooks AM022.		C x1 AM002	Q x 2 AM022	<b>C E EN355</b>	1.6 kg	
AN235200CD	Fall arrest with energy absorber elastic strap. Thimble loops. Equipped with 1 carabiner AM002 + 1 hook AM022.		<b>()</b> AM002 x1	AM022 x1		994 g	
AN240CDD	Fall arrester with extensible energy absorber in double woven webbing (Y) with integrated crumple on the lanyard. Retracted length: 1.40 m. Stretched length: 2 m. 1 carabiner AM002. 2 hooks AM022.		CT x1 AM002	О АМ022 х 2		1.8 kg	
AN230CD	Fall arrester with energy absorber in woven webbing with integrated crumple on the lanyard. Retracted length: 1.40 m. Stretched length: 2 m. 1 Screw lock carabiner in galvanized steel, opening 17 mm (AM002). 1 Automatic hook lock in galvanized steel, large opening 55 mm (AM022).		C x1 AM002	AM022 x 1		1 kg	



AN235200PR







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	o <sup>¢</sup>	<b>LIVIA</b>	Ο			<b>L</b>	Û
AN218S200CDD	Fall arrester with energy absorber in double braided rope (Y) Ø 10.5 mm with shrink tubing to compress the lanyard. Thimble loops.	2 m	AM002 X1 AM02	<b>)</b> x 2 22		1.9 kg	
AN208S200CD	Fall arrester with energy absorber in braided rope Ø 10.5 mm with shrink tubing to compress the lanyard. Thimble loops.		AM002 X1 AM02	<b>)</b> 22 22	<b>C E</b> EN355	1.2 kg	x 5
AN218R2CDD	Fall arrester with energy absorber in double braided rope Ø 12 mm (Y), adjustable by means of two gear rings on the rope.	150 s 2 m		) x 2 22 x 2		1.9 kg	
AN208R2CD	Fall arrester with energy absorber in braided rope Ø12 mm, simple and adjustable by means of a gear ring on the rope.	1,50 → 2 m		<b>)</b> <sub>x1</sub> 22		1.2 kg	

### AN218S200CDD











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### - FALL ARRESTER SYSTEMS ENERGY ABSORBING LANYARDS

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AN201200CC	Fall arrester with energy absorber in stranded rope Ø 12 mm.		AM002 X1 AM002 X1		800 g	
AN201200CD	Thimble loops.	9 m	AM002 X1 AM022 X1		111/0	vE
AN211200CCC	Fall arrester with energy absorber in stranded rope (Y) Ø 12 mm.	···- 2 m	AM002 x1 AM002 x2	<b>(                                    </b>	1.1 kg	ΧO
AN211200CDD	Thimble loops.		AMOD2 X1 AMO22 X2		2 kg	





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	o <sup>0</sup>	<b>LIVIA</b>	Ō	<b>V</b>		Ŷ
AN203200CC	Fall arrester with energy absorber in lanyard webbing. Thimble loops.		AM002 x1 AM002 x1		668 g	
AN203200CD	ran arester with energy absorber in lanyard webbing. Inimible loops.	1 m	AM002 X1 AM022 X1	<b>(                                    </b>	1 kg	νE
AN213200CCC	Fall arrester with energy absorber in double lanyard webbing (Y).	2 m	AM002 X1 AM002 X2		1.3 kg	
AN213200CDD	Thimble loops.		AMOD2 X1 AMO22 X2		1.6 kg	





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### - FALL ARRESTER SYSTEMS ENERGY ABSORBING LANYARDS

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AN213100CDD	Fall arrester with energy absorber in double lanyard webbing (Y). Thimble loops.	1m	-1m	1m	AMOD2 X1 AMO22 X2	<b>C F</b> EN355	1.3 kg	VE
AN203100CC	Fall arrester with energy absorber in lanyard webbing. Thimble loops.		AMOO2 X1 AMOO2 X1	CC EN300	600 g	σxυ		

# AN213100CDD

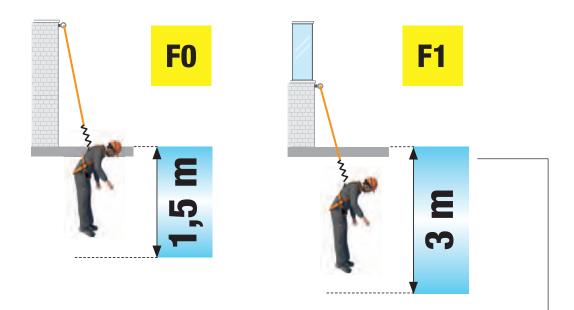






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#### Identifying a usage factor is complex. With this device no more hesitation possible: it is the safest factor.





#### **1-Ergonomics**

Easy anchoring thanks to its large connectors

#### 2-Secure

The length of 1m reduces the air draft in factor 1 Impossible to position in factor 2

The No Shock absorber system developed by Delta Plus makes it possible to find the right compromise between braking force and stopping distance for a better safety of the operator.

[...]

The failure to recognise or to take into account the air draft as a fall factors is a problem for some companies who want to ensure that their employees are always in a secure position. That's why we created these 1m long absorbers: the employer ensures the safety of the user with a reduced air draft and the impossibility of anchoring in factor 2.

David Naulin, Fall Protection Product Expert

#### - FALL ARRESTER SYSTEMS RETRACTABLE FALL ARRESTERS

**PROTECTOR TETRA** 

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PROTECTOR TETRA AN15006F	Self retractable fall arrester with galvanised steel cable with integrated energy absorber. ABS case. Fall indicator. Inertia locking system.	6 m	🕬 🗰 x 1 AMO20	о 6 С Є ЕN360 150 kg	5.6 kg	x1
PROTECTOR TETRA AN15015F		15 m	🕬 🗰 🗘 x 1 AMO20		6.5 kg	
PROTECTOR TETRA AN15006T		6 m	🛥 x 1 AM016		5.6 kg	
PROTECTOR TETRA AN15015T		15 m	🕬 x 1 AM016		6.5 kg	
PROTECTOR TETRA AN15010F		10	🕬 🗰 🗘 x 1 AMO20	0 - - - - - - - - - - - - -	5.8 kg	•
PROTECTOR TETRA AN15010T		10 m	🛹 x 1 AM016	0 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.3 kg	•

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2 integrated carrying handles Easy to transport and set-up

Tested at 150 kg No problem related to the weight of the tools transported or other

High strength ABS casing ➡High impact resistance

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#### Link performance with ergonomics



Brake discs prepared during manufacture by running them in order to be 100% efficient from the first use. This preparation, which consists of carrying out a calibration of the whole brake system, makes it possible to have the best possible compromise between braking force and fall stopping distance.



Innovation developed thanks to the know-how of FROMENT, our historical subsidiary expert in mechanical systems, this TETRA range is acclaimed by professionals who work at height.

David Naulin, Fall Protection Product Expert

### - FALL ARRESTER SYSTEMS RETRACTABLE FALL ARRESTERS

	¢ <sup>0</sup>	LUUS A	Ō	V	7		Ŷ
PROTECTOR TETRA AN14006F	6 r Self retractable fall arrester with webbing with energy absorber. ABS case. Fall indicator. Inertia locking system. 8 r	0	🕬 🗱 x 1 AMO21		<b>EN360</b> HORIZONTAL CERTIFICATION 100 kg	5.4 kg	- - - - -
PROTECTOR TETRA AN14006T		0111	🛥 x 1 AM016			5.4 kg	
PROTECTOR TETRA AN14008F		8 m	🕬 🗱 x 1 AMO21	CE CERTIFICATION			XI
PROTECTOR TETRA AN14008T			⊶ x 1 AM016			0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 0 0 0

#### **PROTECTOR TETRA**







Fall indicator ➡Easy visual verification





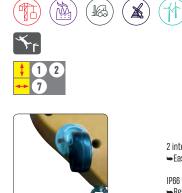
2 integrated carrying handles

2 integrated carrying handles Easy to transport and set-up

High strength ABS casing ➡High impact resistance

Tested at 150 kg ➡No problem related to the weight of the tools transported or other

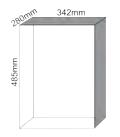
	o <sup>c</sup>	<b>LIVE</b>	0			Û
PROTECTOR EXTRA Large An19040T	Self retractable fall arrester with Ø 4,8 mm steel cable with integrated	40 m	🕬 x 1 AM016	CE EN360	21.1 kg	x1
PROTECTOR EXTRA Large An19060T	nergy absorber. ABS case. Fall indicator. Inertia locking system.	60 m	🕬 x 1 AM016		30.5 kg	
PROTECTOR LARGE AN18020T	Self retractable fall arrester with galvanised steel cable with	20 m	🕬 x 1 AM016		11.5 kg	
PROTECTOR LARGE AN18030T	integrated energy absorber. ABS case. Fall indicator. Inertia locking system.	30 m	🕬 x 1 AM016	•• • • • • •	12.35 kg	••••••••••••••••••••••••••••••••••••••



**PROTECTOR EXTRA LARGE** 



Fall indicator Seasy visual verification





IP66 waterproof stainless steel cable ➡Resistance in aggressive environments



# PROTECTOR LARGE



Fall indicator Easy visual verification



### - FALL ARRESTER SYSTEMS **RETRACTABLE FALL ARRESTERS**

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PROTECTOR METAL AN115F		20 m	🕬 🗰 x 1 AMO20		- - - - - -	9.5 kg	
PROTECTOR METAL AN115T		20111	🕬 x 1 AM016	о С Є Е <b>N360</b> 150 kg		9.5 kg	
PROTECTOR METAL AN116F	Self retractable fall arrester with galvanised steel	05	🕬 🗱 x 1 AM020		0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 kg	
PROTECTOR METAL AN116T	cable with integrated energy absorber. Steel case. Fall indicator. Inertia locking system.	25 m	🛹 x 1 AM016		0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 kg	•
PROTECTOR METAL AN11730F		30 m	🕬 🗱 x 1 AM020			44 1	
PROTECTOR METAL AN11730T	# 	30 m	🛹 x 1 AM016			11 kg	x1
PROTECTOR ELEVATOR TR01720F		00	🕬 🗰 x 1 AM020			14.6 kg	• • • • • • • • • • • • • • • • • • •
PROTECTOR ELEVATOR TR01720T	Self retractable fall arrester in steel cable with	20 m	🛹 🕬 x 1 AM016		EN1496	14.6 kg	
PROTECTOR ELEVATOR TR01730F	movable rescue winch. Steel case. Inertia locking stem. Energy absorber		🕬 🗰 x 1 AM020		CLASS A	18.9 kg	
PROTECTOR ELEVATOR TR01730T		30 m	🛹 x 1 AM016		• • • • •	18.9 kg	•



➡No problem related to the weight of the tools transported or other



**PROTECTOR ELEVATOR** 

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Equipped with a rescue winch ➡Rescue a person without sending a rescuer



Fall indicator ⇒Easy visual verification





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Tested at 150 kg ➡No problem related to the weight of the tools transported or other

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MAXIBLOC AN10006T	Self retractable fall arrester with Ø 4 mm galvanised steel cable with	6 m	🛥 x 1 AM016		2.80 kg	v1
MAXIBLOC AN10010T	integrated anargy abcorbor DD case. Foll indicator	10 m	🕬 x 1 AM016	СЄ <sup>EN360</sup> 150 kg	3.75 kg	XI
MEDBLOC AN13006C	Self retractable fall arrester with polyester webbing 25 mm. ABS protection. Swivel with fall indicator. 1 carabiner AM002.	6 m	<b>*</b> x1AM002		1.60 kg	x 5

#### MAXIBLOC

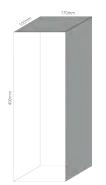


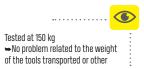


Lightweight Easy to transport and set-up



Fall indicator ➡Easy visual verification















Light and compact: 1.8 kg ➡Easy to transport and set-up



Fall indicator ➡Easy visual verification





### - FALL ARRESTER SYSTEMS RETRACTABLE FALL ARRESTERS

	a <sup>C</sup>	<b>UNIT</b>	Ō			Û
MINIBLOC AN102	Self retractable fall arrester with 46 mm strap with energy absorber. Protection case. 1 carabiner AM002.	2,50 m	x1AM002	9 9 9	1.1 kg	
FIXBLOC AN105	Self retractable fall arrester with 17 mm polyester/Aramid Kevlar® strap. Plastic case. Inertia locking system. 1 automatic swivel connector with fall indicator. 1 carabiner AM002.	1,90 m	<b>*</b> x 1 AM002	C C EN360 150 kg	834 g	x 5

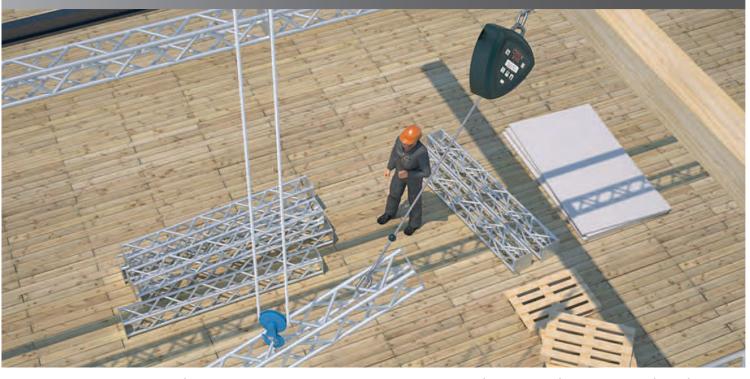
#### MINIBLOC AN102











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PROTECTOR LOAD AN517	Load fall arrester in galvanized cable Ø 4 mm to secure all moving loads under	10 m		5.1 kg	
PROTECTOR LOAD AN518	250 kg. High resistance ABS case.	15 m	<b>(€</b> 2006/42/EEC	5.9 kg	x1
PROTECTOR LOAD AN530	Load fall arrester in galvanized cable 0 6 mm to secure all moving loads under 500 kg. Steel case.	12 m		11.6 kg	

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#### LOAD SELF RETRACTING FALL ARREST

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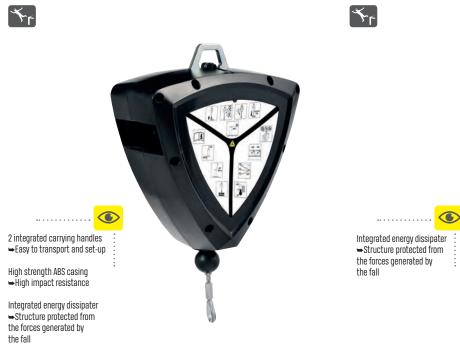
**PROTECTOR LOAD AN517 - AN518** 

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#### LOAD SELF RETRACTING FALL ARREST



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# - FALL ARRESTERS ON ROPE

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ASDRISS2 ANO68	Fall arrester sliding on anchorage line stranded rope Ø 10.5 mm (rope sold separately). Opening type fall arrester equipped with automatic locking and energy absorber. 1 carabiner.		🗢 x 1 AMOO2	EN353-2 EN362	549 g		
CAMELEON ANO66A	3 multi function products in 1: 1- Sliding fall arrester on braided rope anchorage line ø 10,5 - 11mm equipped with an extension tab with energy absorber and an AM002 carabiner. 2- Stopper on rope: The rope's adjusting device used in the safety bracket (type A) accompanies the user during his changes of position and locks under the action of a static or dynamic load. 3- Stopper on rope: The ascension device on its work support, locks under the action of a load in one direction and slides freely in the opposite direction (type B) (see EX030 description too).		<b>*</b> x 1 AM002		706 g		
CAMELEON ANO66	3 multi function products in 1: 1- Sliding fall arrester on braided rope anchorage line Ø 10,5 - 11mm + 1 AM002. 2- Stopper on rope: The rope's adjusting device used in the safety bracket (type A) accompanies the user during his changes of position and locks under the action of a static or dynamic load. 3- Stopper on rope: The ascension device on its work support, locks under the action of a load in one direction and slides freely in the opposite direction (type B) (see EX030 description too).		T AMDO2	С Є еN353-2 еN12841 ТҮРЕ А ТҮРЕ В	EN353-2 EN12841 Type A	300 g	x 5
AN410		10 m	<b>*</b> x 1 AM002		1.4 kg	• • • •	
AN420	Anchorage line in braided rope Ø 11mm for CAMELEON® and ASDRISS2.	20 m	<b>*</b> x 1 AM002		2.1 kg	- <b>60</b> 0 0 0 0 0	
AN430	1 loop sewn thimble. Equipped with an ANOO6 counterweight and an AMOO2 connector.	30 m	<b>*</b> x 1 AM002		2.9 kg	e) 0 0 0 0 0	
AN401		per meter	<b>x</b> 1AM002		· · · · · · · · · · · · · · · · · · ·		
ASDRISS2	ANO68		Fall in Etasy	LEON ANOG	Ð		
AN410 6-3 💼 (	AN42		AN430	AN4	+01		

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ASCORD ANO65	Fall arrester sliding on anchorage line stranded rope 0 14 mm (rope sold separately). Opening type fall arrester equipped with automatic locking, non-inverting device, energy absorber with fall indicator. 1 carabiner AM002.		<b>*</b> x 1 AM002			736 g	x 5
FENNEC AN06310		10 m	**************************************	C€ EN353-2		1.3 kg	x 10
FENNEC AN06320	<ul> <li>Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line 0 12 mm. Wear indicator. 1 loop spliced on high</li> </ul>	20 m	C		2.2 kg	x 5	
FENNEC AN06330	end.	30 m		00 0 0 0		3 kg	x 5
AN30010		10 m		• • •		1.6 kg	x 10
AN30020	Anchorage line stranded rope Ø 14 mm for ASCORD®. End spliced with thimble loop. 1 carabiner AM002.	20 m	<b>C</b> x1AM002			3 kg	x 5
AN30030		30 m				4.1 kg	x 5

#### **ASCORD AN065**





Non-inverting device —Easy installation of the slider in the right direction

Energy dissipater with fall indicator





Recommended accessory for the proper use of this product : 1 connector AM002

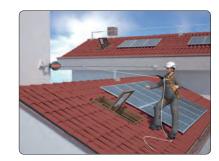




#### AN30020

#### AN30030



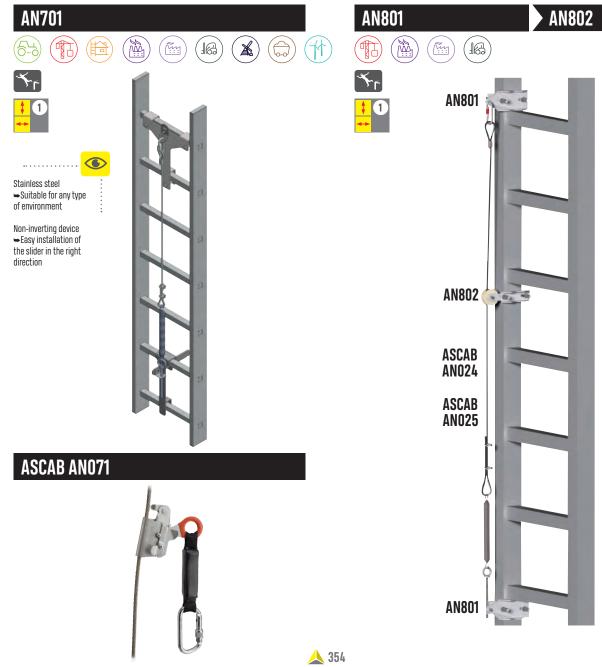


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## FALL ARRESTERS ON CABLE

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AN701	Vertical central attachment composed of 2 stainless steel plates with 0 12 mm anchor screws and tensioner system. AN024/AN025 cable sold separetly by meter.		<b>en795</b> Type a	4 kg	x1
AN801	Top attachment (EN795-A), lower attachment and tensioner system in stainless steel with universal anchorage.		<b>En795</b> Type A (An801UNI)	4.2 kg	x 6
AN802	Intermediary attachment in stainless steel with universal anchorage. Recommended at least every 8 m.			1.3 kg	x 12
ASCAB AN071	Sliding opening fall arrester on anchorage line in cable Ø 8 mm with self-locking, non-inverter device, extension tab with energy absorber. 1 carabiner AM002.			1 kg	x 5
ASCAB ANO24	1 meter anchorage line cable for ASCAB in stainless steel. 1 thimble sleeve loop. 1 carabiner AMOO2.	1m	<b>C</b> € EN353-1		x1
ASCAB AN025	Additional meter of anchorage line cable for ASCAB.	per meter		0 0 0 0 0	



### - ANCHORAGE - WORK POSITIONING ANCHORAGE DEVICES

	o <sup>o</sup>	<b>LIJI</b>	- - - - -			
LV106	Swivel anchorage point in stainless steel, for vertical or horizontal installation (ceiling).	2 2 2 2 2 2 2 2 2 2 2 2 2			100 g	
LV105	Anchorage with stainless steel eye Ø 12 mm. Overall length 140 mm. Rod length (under flange) 100 mm. Thread length 80 mm.			<b>EN795</b> Type A	174 g	x 10
LV100	Stainless steel anchorage mounting plate with screws Ø 12 mm.	<b>e</b> - - - - - - -			46 g	
CAIMAN LV135	Anchorage for concrete block. Adjustable length from 80 cm to 120 cm.	Adjustable	C C	<b>EN795</b> TYPE B	12.9 kg	x1
DAYAK LV120G	Transportable anchorage point, galvanized steel, for door frame or window of 63 to 123 cm. Adjustable with clamping screw.		ιε	<b>TS16415</b> 2	7 kg	x1



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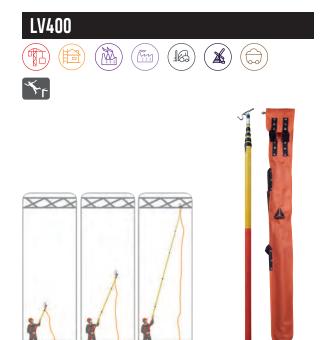
#### - ANCHORAGE - WORK POSITIONING ANCHORAGE DEVICES

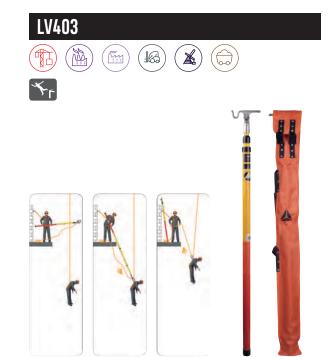
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IPN LV130	A transportable interim anchorage device with aluminium alloy wheels. It can be attached to beams of width 76 to 255 mm.	Adjustable	<b>EN795</b> Type B	4 kg	х4
AM007	Sling anchor in galvanized steel cable Ø 8 mm. Protective sheath. 2 thimble ferrule loops.	1m		600 g	x 5
LV102100	Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D.	1m		222 g	
LV102150	Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D.	1,50 m	СС <sub>ем795</sub> Туре в	258 g	
LV102050	Extension strap in high tenacity polyester with D-ring. Width 45 mm. End loop with shrinkage and steel anchor D.	0,50 m	EN354	300 g	x 15
L0030100		1m		70 g	
L0030150	Lanyard and anchorage point in tubular strap. 2 sewn loops. Width 25 mm.	1,50 m		187 g	
L0030200		2 m		218 g	

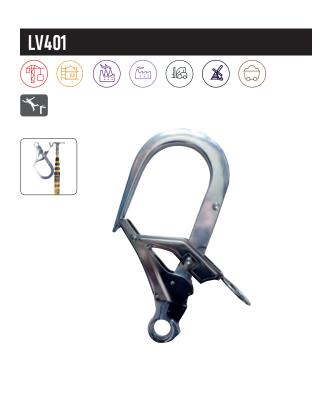


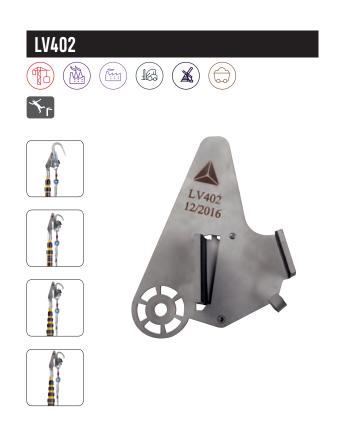


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LV400	Telescopic rod with 5 sections. Closed length 2 m. Open Length 8 m. Material insulates to 30kV.	··· Adjustable		8 0 0 0 0		5 kg	x1
LV403	Telescopic rod with 3 sections. Closed length 1,2 m. Open Length 3 m. Material insulates to 30kV.				4 kg		
LV401	Automatic lock hook in aluminium with double opening action. Opening 90 mm R> 23kN.		CE	<b>EN795</b> Type B <b>EN362</b> Class A	1.1 kg	x 10	
LV402	Adapter for connector, for use with AM022 or AM030 (sold separately). Usable on LV400 and LV403 rods. Particularly suitable for rescuing upwards or downwards.	• • • • •			362 g	0 - - - - - - - - - - - - -	









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# - ANCHORAGE - WORK POSITIONING

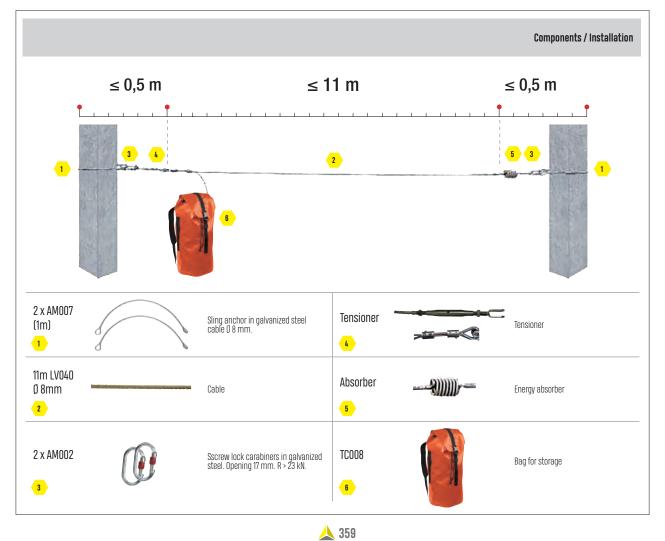
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Description	LV201 Single span cable lifeline
Certification	EN795:2012 Type B + C (Hybrid)
Maximum users	CEN/TS 16415-2013
Weight	cen/rs 164152013 3.8 kg Sangle
Material	Sangle
Length	20 m in total, 18 m usable
Anchorages	On starting and ending points
Slider	

📩 Safe

Subsective

🔶 Safe

	🔶 Clear
	Image: Second state   Image: Second state
Description	LV301 Single span cable lifeline
Certification	EN795:2012 Type B + C (Hybrid)
Maximum users	TT CEN/TS 16415:2013
Weight	6.4 kg
Material	Inox
Length	12 m in total, 11 m usable
Anchorages	On starting and ending points
Slider	



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- ANCHORAGE - WORK POSITIONING

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L0147150CDD	Double lanyard in braided rope Ø 10.5 mm. 3 thimble loops ends.	1,50 m	×1 AM002 x 2	C E <sup>EN354</sup>	1.4 kg	x 5
	(1)					
L0147150	Double lanyard in braided rope Ø 10.5 mm. 3 thimble loops ends.	1,50 m		C E <sup>EN354</sup>	264 g	x 15
	(1) (1)					
L0047150AD	Lanyard in braided rope Ø 10.5 mm. 2 thimble loops ends.	1,50 m	x1 AM010 AM022 x1	CE <sup>EN354</sup>	802 g	x 5
	(***) (*					
L0047100	Lanyard in braided rope Ø 10.5 mm. 2 thimble loops ends.	1m		6 	116 g	x 15
L0047150		1,50 m		<b>C</b> € EN354	150 g	x 15
L0045200		2 m			188 g	x 15
	(1)					
L0007150CD	Lanyard in stranded rope Ø 12 mm. 2 thimble loops.	1,50 m	x1 AM002 x1 AM022 x1	CE <sup>EN354</sup>	850 g	x 15
Ċ	(1) (1)					
L0007100	Lanyard in stranded rope Ø 12 mm. 2 thimble loops.	1m			154 g	x 15
L0007150		1,50 m		<b>C</b> € EN354	198 g	x 15
L0005200		2 m			260 g	x 15
$\square$					9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
Character	👘 🗎 🖾 💭 🕆 🕂 🛛					
L0030100	Lanyard and anchorage point in tubular webbing. 2 sewn loops. Width 25 mm.	1m		ENJOE	70 g	x 15
L0030150		1,50 m		C E TYPE B	187 g	x 15
L0030200		2 m		EN354	218 g	x 15
	(1) (2) (3) (3) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2					
	<u> </u>					

# CONNECTING SYSTEMS

	¢¢				Û
AM027	Automatic lock carabiner in light alloy. Large opening 58 mm. Sliding ring. Eye hook opening with latch.	CE	<b>EN362</b> Class A / T	240 g	x 20
$\mathbf{Q}$					
0	6-3 🚯 🛍 🚵 🗺 🕼			• • • •	
AM030	Automatic lock hook in aluminium alloy. Opening 25 mm.	C€	<b>EN362</b> Class A / T <b>EN12275</b> Type D Type K	130 g	x 20
0	6-3 (f) (d) (m) (d) Kr	•		0 0 0 0	
AM009	Quick docking in stainless steel. Large aperture 150 mm. Eye hook. R > 23 kN.	CE	<b>EN362</b> Class A / T	380 g	x 20
	63 🎁 🛍 📾 📾 🏠 😭 🍾	6 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9			0 0 0 0 0 0 0 0 0 0 0 0 0 0
AM022X2	Set of 2 automatic hooks lock in galvanized steel. Large opening 55 mm. Eye hook. R > 20 kN.	CE	EN362 Class A	1.0 kg	x 10
	63 (B) (B) (B) (B) (B)				
AM025X2	Set of 2 automatic lock carabiners in light alloy. Opening 22 mm. Ring 1/4 turn. R > 25 kN.	CE	EN362 Class B	180 g	x 10
	63 🎁 🛍 📾 📾				
AM002X5	Set of 5 screw lock carabiners in galvanized steel. Opening 17 mm. R > 23 kN.	CE	EN362 Class B	802 g	х4
	63 🊯 🚵 📾 敏 🏹 🍾				
AM018	Karabiner with 1/4 turn automatic lock in steel. Opening 17 mm. R > 25 kN.	CE	EN362 Class B	200 g	x 20
$\bigcirc$	63 🚯 📾 📾 🐼 🌧 🌴 🍾				
	<u>∠</u> 361	•			

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### L- SUSPENSION ROPE ACCESS WORK

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TC001	Ventral opening blocker type in aluminium alloy. Works on braided rope Ø 8 to 13 mm.	CE	EN567	160 g	x 10
TC002	Right hand ascension handle in aluminium alloy. Works on braided rope Ø 8 to 13 mm.	CE	EN567	240 g	x 10
D	<ul> <li>(a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b</li></ul>				
TC003	Left hand ascension handle in aluminium alloy. Works on braided rope Ø 8 to 13 mm.	CE	EN567	240 g	x 10
TC012	Mono stirrup adjustable strap 25 mm from 90 to 120 cm. Pedal ascent. To pair with TCOO2 or TCOO3.			200 g	x 10
	63 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				
SAFECORD TCOO7	Locking device suitable for descent and ascent, with mechanical traction systems.	CE	<b>EN12841</b> Type C	360 g	x 50
			EN341 Type 2 Class A EN358		
DESCORD TCOO6	Self locking descender with double security (anti-panic system) in aluminium. Intended for works on braided rope 0 9 à 12 mm.	CE	<b>EN341</b> Class 2A	360 g	x 50
Ń			<b>EN12841</b> TYPE C		
TC004	Figure of eight in aluminium alloy. Works on braided rope Ø 9 to 12 mm.	- 		130 g	x 20
8					
TC044	Safety figure of eight in aluminium alloy. Works on braided rope Ø 9 to 16 mm.	2 0 0 0 0 0 0 0 0 0 0 0 0 0		260 g	x 20
8					
	<u>Å</u> 362	•			•

<b>L</b>	d <sup>o</sup>	<b>LIVIA</b>		<b>V</b>		١
TC005	Oscillating pulley flanges in aluminium alloy. Intended for works on braided rope less than 0 16 mm.		CE	EN12278	250 g	x 10
	⑦ ⓑ 險 ∞ ⋈ ↑ ≤r					
TC015	Double pulley with oscillating flanges in aluminium alloy for braided rope less than 0 16 mm.		CE	EN12278	430 g	x 10
TC016	Mini pulley in aluminium alloy for braided rope less than 0 13 mm and cable less than 0 12 mm.		C€	EN12278	140 g	x 10
	63 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)					
TC025	Double aluminium alloy pulley on ball bearings, designed for zip lines (less than ø 13 mm) and cables (less than ø 12 mm).		CE	EN12278	280 g	x 10
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TC040	Double swivel on ball bearing.		CE	EN362 EN354	160 g	x 20
8	6-3 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (					
TC009	Semi-static braided rope Ø 10,5mm - Length on request.	per meter	CE	<b>EN1891</b> Type A	200 g	x1
TC029	6-3       1		• • • • • •		200 g	x 100
-10023	adding elements.		- 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
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### FALL ARREST AND RESCUE, CONFINED SPACE





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#### Easy to install, it is lightweight and adapts to all types of floors

	o <sup>©</sup>	ALL	Ο	<b>V</b>		Û
TRA20	Telescopic aluminium tripod. Height adjustable from 1.20 m to 1.97 m. Maximum wheelbase on ground 1.89 m. 3 central anchor points, 2 anchor points on the legs. Ability to set the TRA101 or TRA102 adjuster plate or the TRA103 steps.				15.3 kg	
TRA22	Telescopic aluminium tripod. Height adjustable from 1.20 m to 1.97 m. Maximum wheelbase on ground 1.89 m. 3 central anchor points, 2 anchor points on the legs. Equipped with TRA101 and TRA102 adjuster plates. TRA103 steps not included.	Adjustabla		EN795 CE TYPE B	17.4 kg	0 0 0 0 0 0 0 0 0 0 0 0 0 0
TRA30	Telescopic aluminium tripod. Height adjustable from 1.74 m to 3.02 m. Maximum wheelbase on ground 2.62 m. 3 central anchor points, 2 anchor points on the legs. Ability to set the TRA101 or TRA102 adjuster plate or the TRA103 steps.	···· Adjustable		<b>C TS16415</b> 3	20.1 kg	0 0 0 0 0 0 0 0 0 0 0 0 0 0
TRA32	Telescopic aluminium tripod. Height adjustable from 1.74 m to 3.02 m. Maximum wheelbase on ground 2.62 m. 3 central anchor points, 2 anchor points on the legs. Equipped with TRA101 and TRA102 adjuster plates and the TRA103 steps.				22.2 kg	10 
TRA101	Aluminium mounting plate for a self retracting fall arrest. To set on tripod TRA20 and TRA30.	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •		1.3 kg	
TRA102	Aluminium mounting plate for hoist. To set on tripod TRA20 and TRA30.		0 0 0 0 0 0		860 g	x1
TRA103	Step to access the tripod head and the pulley. Sold individually.				500 g	
PROTECTOR Elevator Tro1720F		20 m	AM020		14.6 kg	· · · · · · · · · · · · · · · · · · ·
PROTECTOR Elevator Tro1720T	Self retractable fall arrester in steel cable with removable rescue winch. Steel case.	20111	⊶ <b>∞</b> x 1 AM016	<b>EN360</b> 150 kg	14.6 kg	•
PROTECTOR Elevator Tro1730F	Inertia locking system. Energy absorber	30 m	₩₩¥ ₩020	CE	18.9 kg	- - - - - - - - - - - - - - - - - - -
PROTECTOR ELEVATOR TRO1730T		JU 111	••••••x 1 AM016		10.8 Ky	•
TR003C	Manual winch in galvanized cable. Length 20 m. Non-return system. Folding handle.	20 m		0000//0/550	7.8 kg	
TR003K	Manual winch in galvanized cable. Length 30 m. Non-return system. Folding handle.	30 m		2006/42/EEC	8.1 kg	
TRBAG3	Storage bag with wheels for TRA30 and TRA32 3m tripod. 260 x 260 x 2100 mm.	0	• • • • • • • • • • • • • • • • • • •		1.8 kg	
TRBAG	Storage bag with wheels for tripod. 250 x 250 x 1640 mm.	One size	e - - -	0 9 4 9	1.5 kg	x 10

**[...]** 

There are as many types of flooring as types of applications, our tripods had to be able to adapt: here is the challenge that we had to meet during the creation of this device: complex but exciting ! Today the user's testimony proves that we have developed the expected solution.

David Naulin, Fall Protection Product Expert

## **FALL ARREST AND RESCUE, CONFINED SPACE**

	o <sup>o</sup>	tille	<b>V</b>		
GIRAFE TRG20	Mobile anchor for confined space. 360° rotation. Height adjustable from 1.90 m to 2.50 m. Base sold separately. Option to attach the adapter board TRA101 or TRA102.	Adjustable	СС <b>ЕN795</b> Туре в	25 kg	
TRG01	Rotating base on floor for TRG20 anchorage.			16 kg	x1
TRG02	Rotation base for wall for TRG20 anchorage.	• ••0 0 0 0 0 0	D 4 9 9	19 kg	-
TRG03	Mobile base for confined space for TRG20 anchorage.	•	0 0 0 0	36 kg	

#### **GIRAFE TRG20**

(Ming)

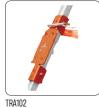








TR01720 TR01730





TROO3C TROO3K





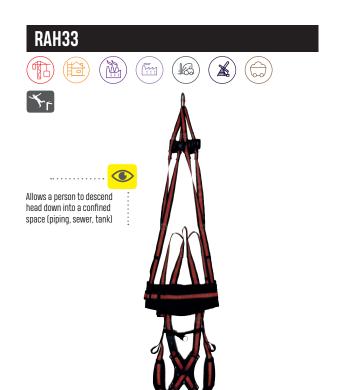


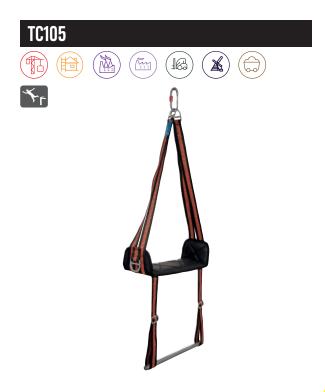


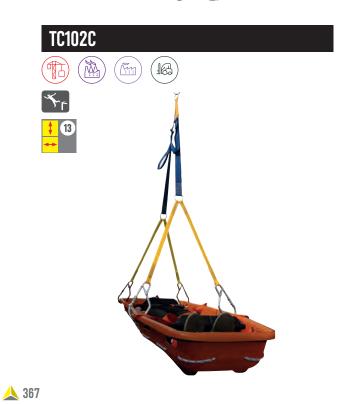
# RESCUE & EVACUATION

	o <sup>c</sup>	<b>LINE</b>	* * *			Û
TC022	Rapid evacuation triangle. Fits all body types with its 12 adjustment points.	Adjustable		EN1498 Class B	1.1 kg	
RAH33	Head down harness with rescue sling. 3 attachment points (sternal, dorsal and for rescue). 7 adjustment buckles.	S/M/L	CE	EN1498 Class C EN361	2 kg	x 5
TC105	A seat for a vertical movement. Adjustable footrest length for better stability. Ring D tool holder on both sides.	0	• • • • • • • • • • • • • • • • • • •		2.2 kg	x 2
TC102C	Universal rescue stretcher sold with safety belts, mattress and foot rest. Flame retardant.	One size	CE	93/42/EEC	23 kg	x1









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# RESCUE & EVACUATION

**RESCUEHUB TCO63** 





2 magnetic brakes Preservation of brake pads



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2 people, ≤ 225 kg Speed ~ 0.8m/ sec (no matter the weight)

Length 300 m max.

➡Precise control of the speed of descent for better safety

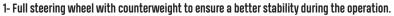
➡Improved rescue speed via use with a screwdriver



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#### Designed specifically to facilitate and execute rescue operations

	o <sup>c</sup>	<b>U</b> UU	<b>V</b>		Û
RESCUEHUB TCO63	Descender, rescue and lifting equipment with hand wheel able to lift up to 225 kg. Approved for 2 people. Automatic brake system. 2 centrifugal brake systems. 3 connectors AM030. TC064 rope sold separately by the meter (max length 300 m), sewn thimble loops.	One size	EN341 Type1 Class A EN1496 Class B	3.40 kg	x1
TC064	Static polyamide rope, Ø 9.6 mm for TCO62 and TCO63. Sold by meter, max length 300 m. Loops sewn thimble.	per meter < 160 m	<b>EN1891</b> Type A		



- 2-3 separate rooms to ensure non-pollution of the mechanical system.
- 3- Quick connectors.
- 4- Can be mounted with an electric screwdriver.



TC064

Our sewing system for the end of the rope ensures a non-variation of its resistance over time.



Rescue operations are often burdensome and must be carried out as quickly as possible to provide assistance to the victim. Lending intuitiveness to a tricky application : that's why we designed the TC063.

David Naulin, Fall Protection Product Expert



#### - RESCUE **RESCUE & EVACUATION**

	o <sup>0</sup>	<b>UN</b>			Î
DESCENDER TCO62	Descender and rescue equipment for self-rescue. Automatic brake system. 2 centrifugal brake systems. 3 connectors AM030. TCO64 rope sold separately by the meter (max length 300 m), sewn thimble loops.	One size	<b>EN341</b> Type 1 Class B	1.8 kg	
TC064	Static polyamide rope, Ø 9.6 mm for TCO62 and TCO63. Sold by meter, max length 300 m. Loops sewn thimble.	per meter < 160 m	EN1891 Type A		0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROPE ACCESS KIT TC039	Rope access set comprised of: 1 double safety auto locking descender device TCOO6, 1 anchor ring LV102150, 2 connectors AM025, 1 carrier bag TCOO8. Rope TCOO9 sold separately per meter.	One size	EN12841 TYPE C EN341 CLASS A EN362 CLASS B EN795 TYPE B	1kg	x1
DESCENDER	TCO62		Length 300 m 1 person, s 150 Speed ~ 0.8m, (no matter th — Precise con of descent for	l kg / sec e weight) trol of the sp	

h

2 magnetic brakes







DELTAPLUS







For use with CAMELEON AN066



➡Preservation of brake pads



For use with TC105

1.8 kg →Lightweight and easy to set up



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### - FALL ARRESTER SYSTEMS ACCESSORIES AND STORAGE BAGS

	¢ <sup>C</sup>	ture .		
TRBAG3	Storage bag with wheels for TRA30 and TRA32 3m tripod. 260 x 260 x 2100 mm.	One size	1.8 kg	x 10
TRBAG	Storage bag with wheels for tripod. 250 x 250 x 1640 mm.		1.5 kg	
RA038_	PVC fabric bag for storage and protection of equipments during transport. Dimensions: 60 x 37 x 17 cm.		512 g	x 20
TC008	PVC fabric bag for storage and protection of equipments during transport. Dimensions: 30 x 65 cm.		1 kg	x 5















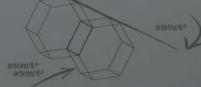


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## DESIGNING MANUFACTURING YOUR SAFETY AT WORK

RACEAL ON LING DO LOGO





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### **TECHNICAL INFORMATION**

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#### PACKAGING TECHNICAL INFORMATION







### MERCHANDISING CORNER "SHOP IN SHOP" TECHNICAL INFORMATION





DELTAPLUS

### MERCHANDISING CORNER "SHOP IN SHOP" TECHNICAL INFORMATION





**PLV010** H 166 x W 60 x D 60 cm Footwear display







**PLV030** H 190 x L 58 x P 36 cm Mini metal display + 12 hooks



**PLV017JA** H 120 x W 35 x D 55 cm Cardboard display with 3 shelves



PLV002 H 25,5 x W 33 x D 36 cm Cardboard box







**PLV004** H 32 x W 20 x D 29.5 cm Counter display for spectacles



### OUR ALPIC AND DPG TRAINING UNITS ARE AVAILABLE TO MONITOR YOU DURING Your training course to match your needs as close as possible. A training centre dedicated mainly to health and safety.





#### ➢ OUR IN PERSON AND E-LEARNING TRAINING OFFERS PPE DESIGNED FOR BOTH DISTRIBUTORS AND USERS.

Our offer proposes structured training as follows:

- **PRESENT** (in the classroom with a trainer): on topics around PPE, sales techniques applied to PPE, risk assessment and recommendations for solutions etc.
- **ON SITE** (practical training): working at height, working in wind, rescue and evacuation etc.
- E-LEARNING (PPE course): visual inspection of fall arrest PPE, full course of PPE, modules dedicated to the standard PPE environment etc.



# ► KEY OBJECTIVES TO BETTER UNDERSTAND THE ISSUES OF PERSONAL PROTECTION

- Act within the framework of health and safety at work.
- Argue a range of personal protection.
- Understand the technical features of personal protection.
- Follow a study of work position and recommend a solution for personal protection.
- · Identify and assess risks, adjust the performance of protection.
- Comply with requirements for recording, storage, maintenance, product control.
- Read and understand the product certification.
- Know the legal, regulatory and normative environment.

### > THEREFORE WE ADDRESS:

- For sales teams to organize and deepen their knowledge of PPE to develop their sales and give more meaning to their job as their business proposals.
- For companies that use PPE to identify the most appropriate answers to the risks of their work environment, to choose the most efficient products and follow up the necessary review of PPE category III.
- OSE employers and managers, whose teams work at height and who, in accordance with the Labor Code, must be trained in the risks related to their work.

### TRAINING IS ESSENTIAL:

For example, particularly when it is about Fall protection PPE Category III against fatal and irreversible risks. It allows:

- Awareness of working at height
- Analysis of risk situations
- Securing workstations
- Finding protection solutions
- Providing more productivity
- Providing technical expertise in inspection, maintenance and repair of products



### EN365

**USERS**: "It is essential that staff are trained, that their competence is controlled and they have written instructions enabling them to choose, use, maintain and periodically revise the PPE or other equipment."

**AUDITOR :** "It is possible that a competent person has to be trained by the manufacturer (i.e.) significant security related knowledge necessary for the disassembly, reassembly, or evaluation of PPE or other equipment."

### **REGULATORY FRAMEWORK**

### THE REGULATION (EUROPEAN UNION)

Regulation EU 2016/425) is intended for Personal Protective Equipment (PPE) manufacturers and determines conditions for market trade. It defines the essential requirements in terms of design, manufacture and test methods for PPE, which must comply in order to ensure the safety of the users. The EU Regulation 2016/425 has replaced the EEC Directive 89/686 since 21/4/2018.

### **STANDARDIZATION**

Its aim is to draw up test methods and in the form of standards defining the technical specifications for products. The respect of these standards is evidence of conformity to Regulation EU 2016/425 and allows CE marking.

### CATEGORIZATION

Taking into account the level of risk covered, the Regulation defines the PPE categories and determines the various manufacturer's obligations:

- **PPE category 1:** Protection against minor risks.
- PPE category 2: All PPE that are not category 1 or 3.
- PPE category 3: Protection against disability or fatality.

### **CERTIFICATION PROCEDURE**

DEC	LARATION OF CONFORMITY
DELTA PLUS GROUP declares that this product o	omplies with the following regulations :
dentification of the PPE object of the declaration QUARTZUP3 QUARTZ UP II	
Designation : ROTOR ADJUSTMENT SAFETY HELMET	
Colour : White, Blue, Yellow, Drange, Red, Green	- Andrews
Size : Adjustable	~
points. Foam sweat band. Innovative adjustable	Net heimet. Polyamide cradie: 3 textile bands with 8 fixing ROTORB system: head sizes \$345 cm. 2 possible positions of torical insulation up to 1 000 V A.C. or 1 500 V.D.C.
The PPE is also identifiable by the following max- The product picture Bach PPE wars the name indicated on this Bach PPE wars the bar code indicated in the Each PPE wars a batch number, for any fu- this batch number, allows us to ensure the to	declaration of conformity, ar annex to this declaration of conformity rither information, tast over it to us. Our organization, based on
EU DECLARATION OF CONFORMETY This declaration of conformity is issued under to The object of the declaration identified above is EU 2016/425 Regulation, with its requirements.	in conformity with the relevant Union harmonisation legislation:
	(6
	CULATION (TU) 2016/425
EN397:2012 + A1:2012 Protect	
and the second	- strat
EN50365:2002 Electrically imu	lating featwest for use on low voltage installations
2008 - DOLOMITICERT S.C.A.R.L. (Z.IND. VILLAN Notified body which performed the EU Type- ex certificate: EC 13 0022 REV 1	OVA, N°1 32013 LONGARONE (BL) ITALY) : antivution [module B] and issued EU type-examination
The PPE is subject to the conformity assessment process (module D) under surveillance of the no MARSEILLE CEDEX 16 FRANCE )	t procedure to type based on quality assurance of the production stiffed body: 0082 - APAVE SUDELINOPE (CS60193 1332)
Apr. 14/11/2018	Signed for and on behalf of DILTA PLUS GROUP : David GUDHO Marketing director
	- Distance

### OTHER ACCREDITATIONS (Except European Union)

Some of our products are accredited under the regulations of many countries.

The products concerned (and / or their packaging) bear the following markings :

- Category 1 PPE : Evaluation of conformity by the manufacturer (Module A)
- **PPE category 2 and 3**: EU type examination of the PPE (Module B) by a notified independent body for which compliance (with Regulation EU 2016/425) is verified using standards that are in accordance with the regulation. Issuance of the EU Type Examination Certificate (confidential document).
- PPE category 1, 2 and 3: CE marking on the product.
- **PPE category 3**: Control by a notified independent body that ensures compliance of the manufacture with the examined PPE:

- either monitoring of conformity to the type based on the internal control of production and supervised controls of the product at random intervals (Module C2),

- or conformity to the type based on quality assurance of the production method (Module D).
- **PPE category 1, 2 and 3**: Writing by the manufacturer of the EU Compliance Declaration which proves the compliance of the PPE with Regulation EU 2016/425 the user.

The product sheet, the user instructions and the Declaration of Conformity are available online on our website: <a href="http://www.deltaplus.eu">www.deltaplus.eu</a>

USA	ANSI, ASTM, NIOSH
Argentina	(C)
Brazil	СА
Ukraine	
Common Economic Space (Russia, Belarus, Kazakhstan)	EHC



### SAFETY EYEWEAR

Safety eyewear provides protection from spray and splatter from particles, liquids and dust, and from chemical product fumes and radiation.

#### HOW TO PROTECT YOURSELF?

Select the most suitable protective glasses or shields

- Identify the type of risk: sprays, radiation, other, ...
- Determine the type of protection: spectacles-type safety glasses, goggles, face mask. cover doddles. ...
- Note the protective features: scratch-resistant, fog-resistant, tinted, ...
- · Select the type of eye-piece: one-piece or double lens
- · Choose the frame type: design, classical, ...

#### STANDARDS

EN166: applies to all types of individual protection of the eve which protects from hazards likely to damage the eye, except for nuclear radiation, x-rays, laser emissions and infrared emitted by low-temperature sources. Does not apply to eye protection for which separate standards exist (anti-laser eve protection, sunglasses for general use, ...).

EN175: Specifications for the safety requirements for eye and face protection equipment for welding and related techniques (filters frames/ media).

EN169: Specifications of level numbers and requirements relating to the transmittance of filters to protect operators for welding and related techniques. Specification of requirements for welding filters with double number of levels.

EN170: Specifications of level numbers and of requirements relating to the transmittance of the filters for protection against ultraviolet radiation.

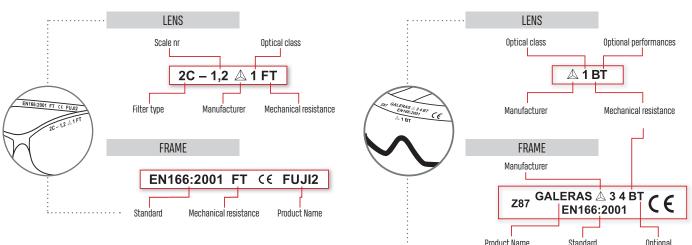
EN172: Specification of level numbers and requirements relating to the transmittance of filters for protection against solar radiation, industrial use.

EN379: Specification of the requirements for automatic welding filters, i.e. welding screens with automatic variation of the transmission factor. These screens are intended to protect operators during welding and related techniques.

EN1731: Material specifications, design, performance and test methods for eve and face mesh type protective, for professional use,

ANSI (US American National Standards Institute) Z87.1-2003 : Specifications and minimum general requirements, test methods, selection, use and maintenance of eve and face protection.

### MARKING



#### • SYMBOL MEANING - EN166:

1: optical class allowing permanent wear of the spectacles

#### Mandatory performances

S: Increased robustness: steel ball of 22 mm diameter at 5.1 m/s. (18.36 km/h) F: Low energy impact: steel ball of 6 mm diameter at 45 m/s. (162 km/h) **B:** Medium energy impact: steel ball of 6 mm diameter at 120 m/s. (432 km/h) A: High energy impact: steel ball of 6 mm diameter at 190 m/s. (684 km/h)

#### **Optional performances**

3: Liquid resistance (droplets or splashes).

4: Large dust particles resistance (size of > 5 µm).

5: Gas and fine dust particles resistance (size < 5 µm).

- 8: Short circuit electric arc resistance.
- 9: Resistance to splashes of molten metal and penetration of hot solids.

Product Name

Standard

performances

- T: (F B A) Mechanical resistance to extreme temperatures -5°C/+55°C.
- N: Resistance to fogging of lenses.
- K: Resistance to surface damage by fine particles (anti-scratch).

### ► FILTERS

Special filters can eliminate certain parts of light and a high proportion of the electro-magnetic spectrum (ultraviolet rays, infrared rays...).

				SP	ECTACLES LENS MARK				
						EN	166		
		Minimal		UV FILTER	RS (EN170)	IR FILTERS (EN171)	SUN FILTE	RS (EN172)	WELDING (EN169)
le	ns colour	transmission factor	SCALE Nr	2	20	4	5	6	
EU		of visible light		Colours perception may be alterated	Colours perception is not alterated		Without IR protection specification	With IR protection specification	no code nr
AR		80,0%	1,1				5-1,1	6-1,1	
CLEAR		74,4%	1,2	2-1,2	2C-1,2	4-1,2			
ЗĶЕ		58,1%	1,4	2-1,4	2C-1,4	4-1,4	5-1,4	6-1,4	
LIGHT SMOKE		43,2%	1,7	2-1,7	2C-1,7	4-1,7	5-1,7	6-1,7	
LIG	+ INDOOR	29,1%	2	2-2	2C-2	4-2	5-2	6-2	
SMOKE		17,8%	2,5	2-2,5	2C-2,5	4-2,5	5-2,5	6-2,5	
SMI	OUTDOOR	8,0%	3,1				5-3,1	6-3,1	
		8,5%	3	2-3	2C-3	4-3			3
		3,2%	4	2-4	2C-4	4-4	5-4,1	6-4,1	4
		1,2%	5	2-5	2C-5	4-5			5
		0,44%	6			4-6			6
(bu)		0,16%	7			4-7			7
weld		0,061%	8			4-8			8
VERY DARK (for welding)		0,023%	9			4-9			9
IY DAR	MI0-110	0,085%	10			4-10			10
VEF		0,0032%	11						11
		0,0012%	12						12
		0,00044%	13						13
		0,00016%	14						14
		0,000061%	15						15
		0,000023%	16						16

Lens marking is composed by 2 numbers (separated in the middle by a "-"):

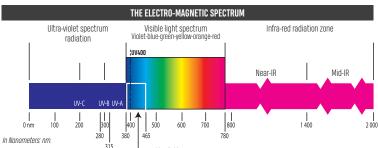


from 2 to 6. Welding lens have no code number.



from 1,1 (the highest % of transmission in visible light, the clearest lens). to 16 (the lowest % of transmission in visible light, the darkest lens).

The yellow coloured possibilities are available on DELTA PLUS range.



U

All our polycarbonate glasses filter 99.9% of UV A, B and C from 130 to 380 nm. Our UV400 glasses carry UV filtration up to 400 nm.

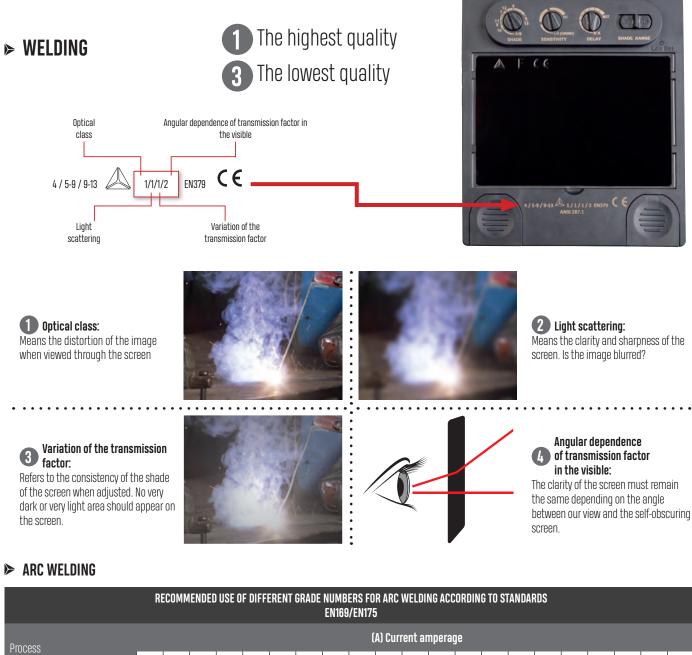
Blue light zone

### **RISKS TO THE EYE FROM HARMFUL RADIATION**

Zone	Wave Length	Environment	Eyesight damage
UV-A	315-380 nm	Outdoor work.	Eye fatigue, partial blindness, cataract. Sunshine.
UV-B	280-315 nm	Sunlight. Industrial environment. Black light tests.	Cataract. Welder flash. Arc flash.
UV-C	100-280 nm	Industrial environment. Arc welding.	Cornea or crystalline lesions. Loss of eyesight.
Harmful blue light	380-465 nm	Industrial environment. Computer work (fatigue, VDU). Electrical installations. Outdoor work.	Retinal lesions. Loss of eyesight. Blurring degeneration (age). Retinitis pigmentosis.
Infra-red	780-1400 nm (near IR) 1400-2000 nm (IR mid)	Electric welding. Molten work (glassmaking, steel production). Micro-wave processes. Sunlight.	Retinal lesions. Blurring degeneration (age). Retinitis pigmentosis (near-IR). Crystalline and cornea lesions (mid-IR).



## HEAD PROTECTION TECHNICAL INFORMATION



Process									(4	l) Cu	irrent	amp	oerag	e								
1100033	1.5	6	10	15	30	40	60	70	100	125	150	ו	175	200	225	250	300	350	400	450	500	600
MMA				8				9		10			11		12	)		13			14	
MAG				8				9		10			11				12			13		14
TIG			8			9			10			11			12		13					
MIG (heavy metals)					9						10			1	1		12		13	14		
MIG (light metals)						10								11		12		13		4		
Arc air gouging						10								11	12		13		14		15	
Plasma cutting					9						10	11		1	2		13					
Micro plasma welding		4	5		6	7		8	9		10			11		12						

This table is valid under normal conditions of use, in which the distance between the eye of the user and the mass of molten metal is approx. 50 cm and average light is approx. 100 lux.



### **SKULL PROTECTION**

### ► HOW TO PROTECT YOURSELF?

To choose the correct safety helmet

**To identify the risk:** falling bumps or combined risks (hearing protection and face protection).

The safety helmet has three functions:

Antipenetration for an effective skull protection.

### STANDARDS

Shock absorber because the cap and the harness absorb shocks.

**Deflector** thanks to a suitable design which makes it possible to deflect the fall of an object from the top of the head.

There is in addition a selection of accessories which offers a face and hearing protection.

EN397	Protective helmets for industry	OPTIONAL MANDATORY	Impact*: force transmitted to the headform must not exceed 5 kN at the fall of an object of 5 kg from a 1 m height.         The impact energy of the helmet at the end of the test is 49 J.         Penetration*: the tip of the mass used in the test (3 kg over 1 m) must not come into contact with the skull         Flammability: the helmet should not burn with flame emission more than 5 seconds after removal of the flame         * The impact and penetration tests are performed at room temperature, at 50°C and at -10°C         In extreme temperatures: impact and penetration tests are conducted at room temperature at 150°C, at -20°C or -30°C         Protects against lateral compression. The maximum deformation of the helmet should be ≤ 40 mm.
EN50365	Electrical insulation heimets for use in low voltage environment	MANDATORY	Resistance to molten metal splashes. Electrically insulating helmets for use near energized equipment not exceeding 1000 VAC or 1500 VDC (appliance class 0). Used simultaneously with other electrically insulating protective equipment, these helmets prevent dangerous currents passing through to the person's head. These optional electrical insulation tests are more stringent than the EN397 and they complement them. (2 triangle marking, Class 0).
ANSI/ISEA 289.1	(American National Standards Institute) American standard for industrial head protection	OPTIONAL MANDATORY	Depending on the type and class of the helmet. Protection against mechanical risk (impact, penetration, crushing), flammability, electrical insulation.
EN812	Bump caps for industry	MANDATORY	Impact*: This PPE protects against impacts from knocks against structures or objects. It does not protect from the impact of a falling object at all. The impact energy of the cap at the end of the test reached 12.25 J. Penetration*: the tip of the mass used in the test (0.5 kg over 0.5 m) must not come into contact with the skull * The impact and penetration tests are performed at room temperature, at 50°C and at -10°C Should in no way be a substitute for an industry type helmet (EN397).
6	Bump cap	OPTIONAL	In extreme temperatures: impact and penetration tests are conducted at room temperature at -20°C or -30°C Protects against accidental short-term contact with a live electrical conductor up to 440 VAC Flammability: the helmet must not burn with flame emission more than 5 seconds after removal of the flame (F marking)

### ► HELMET MARKING ILLUSTRATION



### **HEARING PROTECTION**

Noise-related hearing loss is the most common occupational disease in Europe and North America, accounting for almost one-third of all work-related illnesses. These disorders can lead to long-lasting effects causing stress, fatigue or isolation that significantly increases the risk of work-related accidents caused by other factors. Hearing loss is irreversible and often detected late, so PPE covering this risk is classified as Category III.

### > THE EAR AND SOUND

Noise, as a vibratory phenomenon is characterized by:

- **Its intensity** (in decibels [dB]) corresponds to the amplitude of the vibrations emitted by the sound source. O dB corresponds to the minimum sound level audible by the human ear. The pain threshold is 120 dB and the ear can be damaged from 85 dB.

• **Its frequency** (in Hertz [Hz]) which will define the perceived height. The higher the frequency and the higher pitched the sound, the lower it is and the lower pitched it will be. The human ear is able to perceive sounds at frequencies between 20 Hz (very low pitch) and 20,000 Hz (very high pitch).

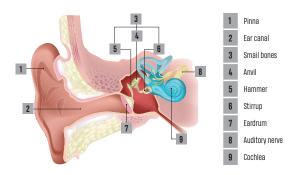
• Its duration and its variation, which makes it possible to differentiate very brief sounds, of a duration in the order of a second, such as impulse noises (a shot, impacts) of sounds that have longer durations (hours, or a day) for which it is important to consider the resulting dose of noise received.

The ear can be broken down into three distinct parts:

• The outer ear consisting of the horn and the ear canal

• The middle ear between the eardrum and the inner ear. It is filled with air and allows, using the ossicles, to transform the aerial vibrations into structure borne vibrations that can be analyzed by the inner ear.

• The inner ear, the heart of the auditory system, consisting of a cavity filled with liquid containing the cochlea where the body of Corti is found. Within it, the vibrations of the liquid transmitted to the ossicles are picked up by the hair cells which select them by frequency. The information is then conducted by the auditory nerve to the cerebral cortex which can interpret it.



### ► DB(A)

The human ear has a particular sensitivity to each frequency range. At moderate sound levels, it is less sensitive to low pitched sounds. To represent this particular sensitivity, the noise measurements and standards use a weighting of the measured sound levels called weighting A. The thus weighted decibels are denoted dB (A).

### ► HOW TO PROTECT YOURSELF?

To choose the correct product for hearing protection.

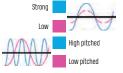
- · Identify the nature of the noise: stable, fluctuating, intermittent, pulse.
- Measure the noise at the working station: intensity (dB) and volume (Hz).
- Determine the exposure time.
- Calculate the reduction necessary to return on an acceptable ambient level (see Directive 2003/10/CE).

Minimum require	uirements Directive 2003/1 ments for the protection o risks related to noise expo	f workers against
8 hours exposure time at ≥ 85 dB(A)	8 hours exposure time at ≥ 80 dB(A) and < 85 dB(A)	8 hours exposure time at > 75 dB(A) and < 80 dB(A)
Obligatory hearing protection	Hearing protectors available to the worker	Hearing protection recommended

The performance of the hearing protector (its attenuation level) must be adapted to the risk assessment of the workplace. It should bring the noise level to a level that is not harmful to health, while avoiding overprotection would cut the operator from his environment (warnings, communication...)

### REGULATORY DAILY DOSE AUTHORIZED ACCORDING TO THE SOUND LEVEL

CONTINUOUS SOUNDS     Daily exposure duration equivalent to an exposure of 85 dB     8 hours     2 hours     15 minutes     1 minutes       IMPULSE SOUNDS     Peak sound pressure level in dB     135 dB     115 dB     95 dB     9	112 dB(A)				
CONTINUOUS 200ND2	Daily exposure duration equivalent to an exposure of 85 dB	8 hours	2 hours	15 minutes	1 minute
	Peak sound pressure level in dB	135 dB	115 dB	95 dB	90 dB
IMPULSE SUUNDS	Limited number of pulses or shocks for 8 hours	1	100	10,000	30,000



### WEARING RATE

Hearing protection decreases very rapidly when the protector is not worn continuously



2 mn of non-wearing (over 8h) => reduction of efficacy of the protector by 25%

2 hours of non-wearing (over 8 hours) => loss of efficacy of the protector by 75%

### **STANDARDS**

- EN352: Exigences of safety and tests.
- EN352-1: the ear-muffs.
- EN352-2: the earplugs.
- EN352-3: the adjustable head defenders for the safety helmets.
- EN352-4: Noise cancelling headphones with level dependent attenuation.
- EN352-6: Earmuffs with electrical audio input.

• **EN352-8:** Audio enabled earmuffs. These standards establish requirements with regards to the manufacture, the design, performances and test methods.

They stipulate the putting at disposal relative to the characteristics.

### ▶ WEARING METHOD

When hearing protection equipment can be worn in several ways (on the head and under the chin for example), it must be tested for each method of wearing.



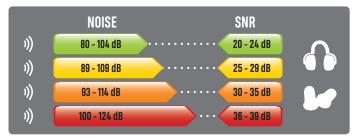
EN458: Hearing protection

Recommendations for selection, use and maintenance.

• ANSI (US American National Standards institute) S3.19 - 1974

This standard specifies the test method for determining the level of noise attenuation (NRR Noise Reduction Rating) of the hearing protection, as recommended by the EPA (U.S. Environmental Protection Agency).

### SOUND LEVEL MITIGATION VALUES



### ▶ HOW DO YOU USE THE ATTENUATION VALUES?

3 indicators, from the simplest to the most precise are made available to the user:

- SNR (Single Number Rating): Single average value of attenuation.
- HML: Attenuation values expressed in terms of average levels of frequency:
  - H: Attenuation of PPE at high frequencies (pitched noises)
    M: Attenuation of PPE at medium frequencies
    L: Attenuation of PPE at low frequencies (bass sounds)
- APV (Assumed Protection Value): Attenuation values expressed on 8 specific frequency levels (see the data sheet of the hearing protector).

### DOUBLE PROTECTION

When wearing a single hearing protector is not enough, it is possible to combine them. The attenuation resulting from the simultaneous wearing of earplugs with a B SNR and a noise-cancelling headset with an ST SNR is calculated by the following formula:  $33 \times log$  ((0.4  $\times$  B) + (0.1  $\times$  ST))

### LEVEL OF NOISE



### **RESPIRATORY PROTECTION**

#### European Directives: End user's obligations

89/391: Identify and assess the risk, take preventive and protective measures, inform and train the workers.
2004/37: Risks related to exposure to carcinogens or mutagens at work: hazard identification, "limit values", respiratory protection.
89/656: Select and use the appropriate and compliant PPE, inform and train people, check and replace the PPE when necessary.

### ▶ STANDARDS

The main standards concerning the respiratory apparatuses

### • EN136: Overall masks

It contains laboratory tests and practical performance tests to check the conformity with resistance to temperature, to impacts, to flame, to thermal radiation, to traction, resistance to cleansers and disinfectants. Furthermore, the visual inspection must concern the marking and the manufacturers' information guide.

#### • EN140: Half-masks and quarter-masks

It contains laboratory tests and practical performance tests to check the conformity with resistance to impacts, to cleaners and disinfectants, to temperature, to flame and respiratory resistance.

#### • EN14387: Gas filters and compound filters

It contains laboratory tests to check the conformity with resistance to impacts, to temperature, to humidity and corrosive atmospheres, and with mechanical and respiratory resistance.

#### • EN143: Filters against particles

It contains laboratory tests to check the conformity with resistance to impacts, to temperature, to humidity and corrosive atmospheres and with mechanical and respiratory resistance.

#### • EN149: Filtering half-masks

It contains laboratory tests to check the conformity with resistance to impacts, to cleansers and disinfectants, to temperature, to flame and with respiratory resistance.

### EN405: Half-masks fitted with valves and gas filters or compound filters

It contains laboratory tests to check the conformity with resistance to handling and wear, to impacts, to flame and with respiratory resistance.

### • EN148-1: Standard threaded joint

This standard is specific to the standard connection system of the cartridge for full face masks.

### NIOSH (US National Institute for Occupational Safety) 42 CFR Part84 Filtering facial parts, multiple levels of protection

**42 CFR Parts4 Filtering facial parts, multiple levels of protection** (non exhaustive list):

- N95: Filter at least 95% of the particles (non-oily) suspended in the air.
- N99: Filter at least 99% of the particles (non-oily) suspended in the air.

# http://respiratory.deltaplus.eu

PRODUCTS	STANDARDS	TOTAL INWARD Leakage** (%)	NOMINAL Protection Factor*
FFP1	EN149	22	4
FFP2	EN149	8	12
FFP3	EN149	2	50
<sup>1/</sup> 2 mask P1 <sup>1/</sup> 2 mask gas XP1	EN140 EN14387 EN143 + A1	22	4
½ mask P2 ½ mask gas XP2	EN140 EN14387 EN143 + A1	8	12
<sup>1/</sup> 2 mask P3 <sup>1/</sup> 2 mask gas XP3	EN140 EN14387 EN143 + A1	2	48
½ mask gas X	EN140 EN14387	2	50
Full Face Mask P3	EN136 EN143 + A1	0,1	1000
Full Face Mask gaz XP3	EN136 EN14387 EN143 + A1	0,1	1000
Full Face Mask gaz X	EN136	0,05	2000

\*NPF: Nominal Protection Factor corresponds to the level of protection tested in the laboratory.

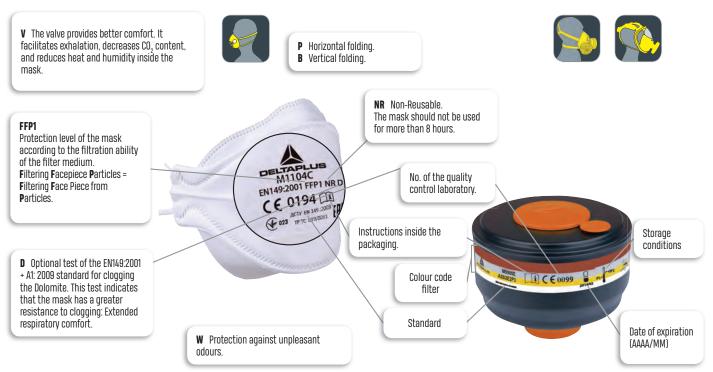
The Level of APF, Assigned Protection Factor, might be different according local regulations \*\*TIL: Leakage of the ambient atmosphere into the respiratory interface measured in laboratory.



🔔 388

### **RESPIRATORY PROTECTION**

### ► MARKING



### GAS AND VAPOUR FILTER

Class 3

ppm

Each filter or cartridge is identified with a colour code.

TYPE		TYPE OF PROTECTION	GAS AND VAPOUR				
A		rom organic gases and vapours ling point is > 65°C	Alcohol, acetic acid, ether, hexane, toluene, xylene, white spirits, thiophenol*				
AX		rom organic gases and vapours ling point is ≤ 65°C	Acetone, acetaldehyde, ethyl ether, butane, methanol, trichloromethane*				
В	Protects fi vapours	rom inorganic gases and	Chlorine, chlorine dioxide, fluorine, formaldehyde, phosphine*				
E		rom sulphur dioxide and some urs and gases	Sulphur dioxide*				
К	Protects fi derivative	rom ammoniac and some amine s	Ammonia, ethylamine, methylamine*				
Hg	Protection	from mercury vapours	Mercury and mercury compounds*				
	FILTE	R ABSORPTION CLASS FOR	GASES AND VAPOURS				
Clas	s1	Low capacity filter (pollutant concentration < 0.1% o	r 1000 ppm).				
Clas	s 2	Average capacity filter (pollutant concentration < 0.5% c	or 5000 ppm).				

High capacity filter (pollutant concentration < 0.1% or 10 000 ppm).

Concentration in parts per million.

### DUST AND AEROSOL FILTERS

TYPE	PROTECTION	PARTICLES
<b>P1</b>	Protects from non-toxic dust and / or water-based aerosols.	Cement dust, flour, calcium carbonate (chalk), graphite, cotton, concrete*
<b>P2</b>	Protects from slightly toxic or irritating solid aerosols and / or liquids.	Untreated softwood, grinding, cutting, welding, milling, coal, fibre glass, mineral fibre, graphite, pesticide powder*
P3	Protects from solid aerosols and / or liquids listed as toxic.	Asbestos (without manipulation), pesticide powder, biological agents, pharmaceutical powder, treated wood, hard wood (exotic), chrome, lime, lead, graphite*
		Manganese, kaolin, sodium hydroxide (caustic soda), quartz, silica*

\*This type of usage is indicative and cannot engage Delta Plus Responsibility.



# HEAD PROTECTION TECHNICAL INFORMATION

http://respiratory.deltaplus.eu

Q

**CHEM D-FINDER** 

### USER GUIDE FOR BREATHING Apparatus filter for polluting Substances

Substances	Chemical formula	N° CAS	Gas filter	Particles filter	MC/DM*	OEL	Unit of measure
l- chloro- 2,3- epoxy- propane	C3H5OCI	106-89-8	A	P3	MC	VLE=2	ppm
1,1,1-Trifluoro-2-bromo-2-chloroethane	CF3CHBrCl	151-67-7			ARI or A AIR	2,000	ppm
.1,2,2- tetrabromoethane	CHBr2CHBr2	79-27-6	Α	P3	MC	1	ppm
1,1-Ethylene-2,2-bipyridyllium dibromide	C12H12N2Br2	85-00-7		P3	MC	0,50	mg/m3
1,2,3,4,5,6,7,8-octachloronaphthalene	C10C18	2234-13-1	Α	P3	MC	0	mg/m3
1,2,4- Trichlorobenzene	C6H3Cl3	120-82-1	A	P3	MC	5,00	ppm
,2,4-Benzenetricarboxylic anhydride	C9H405	552-30-7	Α	P3	MC	0,04	mg/m3
1,2-Benzenedicarboxylic anhydride	C6H4(CO)2O	85-44-9		P3	MC	1,00	ppm
1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate	(CH3O)2P(O)OCHBrCBrCl2	300-76-5	Α	P3	MC	3,00	mg/m3
1,2-dichloroethane	CICH2CH2CI	107-06-2	A		MC	10,00	ppm
1,2-Dihydroxybenzene	C6H4(OH)2	120-80-9	Α	P3	MC	5	mg/m3
1,2-Ethanediamine	NH2CH2CH2NH2	107-15-3	K		MC	10,00	ppm
1,2-ethanediol	HOCH2CH2OH	107-21-1	A	P3	MC	50,00	ppm
1,3- butadiene	CH2=CHCH=CH2	106-99-0	AX		MC	VLE=1	ppm
1,4- dichlorobenzene	C8 H4 CI2	106-46-7	Α		MC	75,00	ppm
1,4-benzenediamine	C6H4(NH2)2	106-50-3	A	P3	MC	0	mg/m3
1,4-dihydroxybenzene	C6H4(OH)2	123-31-9	A	P3	MC	2	mq/m3
1,4-dinitrobenzene	C8H4(NO2)2	100-25-4	A	P3	DM or MC	1,000	mg/m3
1,5-diisocyanatonaphthalene	C10H6(NCO)2	3173-72-6	A2B2	P3	MC	0.10	mg/m3
l,5-pentanedial	OCH(CH2)3CHO	111-30-8	A2	P3	MC	0,20	ppm
,6- hexanolactam	C6H11NO	105-60-2	A	P3	MC	0.20	ppm
,o- nexanoractarii I-Chloro-2-methylbenzene	CID8H4CH3		A	rð	MC	50,00	
		95-49-8	-				ppm
-Chloro-2-propene	CH2=CHCH2CI	107-05-1	AX		MC	1,00	ppm
l-Hydroxybutane	CH3CH2CH2CH2OH	71-36-3	A		MC	50,00	ppm
I-Methoxy-2-propanol	CH30CH2CHCH3	107-98-2	A		MC	100	ppm
1-Methylpropyl acetate	CH3COOCH(CH3)CH2CH3	105-46-4	A	P3	DM or MC	200	ppm
1-Propen-3-ol	CH2=CHCH2OH	107-18-6	A		MC	2	ppm
1-Propyn-3-ol	C3H3OH	107-19-7	A		MC	1	ppm
2- butoxyethanol	C4H9OCH2CH2OH	111-76-2	A	P3	MC	25,00	ppm
2- Diethylaminoethanol	(C2H5)2NCH2CH2OH	100-37-8	К		MC	10,00	ppm
2- ethoxyethyl acetate	CH3COOCH2CH2OCH2CH3	111-15-9	Α		MC	1	ppm
2- ethylhexyl chloroformate	Cl1 C7 O2 H12	24468-13-1	Α	P3	DM or MC	1	ppm
2- furaldehyde	C5H4O2	98-01-1	Α		MC	2,00	ppm
2- Methoxyethyl acetate	CH3COOCH2CH2OCH3	110-49-6	A		MC	0	ppm
2- Methylaziridine	C3H7N	75-55-8	К	P3	MC	2,00	ppm
2- methylpentane- 2,4- diol	(CH3)2COHCH2CHOHCH3	107-41-5	A		DM or MC	25	ppm
2- nitronaphthalene	C10H7N02	581-89-5	A	р	DM or MC		
2- Pyridylamine	NH2C5H4N	504-29-0	A	P3	DM or MC	2	mg/m3
2.2-Diaminodiethylamine	NH2CH2CH2)2NH	111-40-0	ABEK	P3	MC	1,00	ppm
2.2°-dihydroxydiethyamine	(HOCH2CH2)2NH	111-42-2	K	P3	MC	3	ppm
	(CH30)2P(0)0CH=CCl2	62-73-7	A	P3	MC	0,10	
2.2-Dichlorovinyl dimethyl phosphate			-	P3			ppm
2.3- epoxypropyl isopropyl ether	C6H12O2	4018-14-2	A		MC	50	ppm
2.3.4.5.6-pentachlorophenol	C6CI5OH	87-86-5	A	P3	MC	1	mg/m3
2,3-Dihydro-2,2-dimethyl-7-benzofuranyl							
2,4- dichlorophenoxyacetic acid	CI2C6H3OCH2COOH	94-75-7		P3	MC	10	mg/m3
2,4,5-Trichlorophenoxyacetic acid	CI3C6H2OCH2COOH	93-76-5		P3	DM or MC	10	mg/m3
2,4,6- trinitrophenol	(NO2)3C6H2OH	88-89-1		P3	MC	0	mg/m3
2,4,6-tetryl	(NO2)3C6H2N(NO2)CH3	479-45-8	A	P3	MC	2	mg/m3
2,5-Furanedione	C4 H2 D3	108-31-6	Α	P3	MC	0,25	ppm
2-Aminatoluene	CH3C6H4NH2	95-53-4	A	P3	MC	2,00	ppm
2-butanol	CH3CH(OH)CH2CH3	78-92-2	Α		MC	100,00	ppm
2-Carbomethoxy-1-methylvinyl dimethyl phosphate	C7H13P06	7786-34-7	A	P3	MC	0	ppm
2-Chloro-1,1,2-Trifluoroethyl difluoromethyl ether	CHF20CF2CHCIF	13838-16-9			ARI or A AIR	2,000	ppm
2-Chloro-1,3-butadiene	CH2=CCICH=CH2	126-99-8	AX	P3	MC	VLE = 1	ppm
2-chloroacetaldehyde	CICH2CH0	107-20-0	A		MC	1,00	ppm
2-Chloroethanol	CH2CICH2OH	107-07-3	A		MC	1,00	ppm
2-hydroxymethylfuran	C5H602	98-00-0	A		MC	10,00	ppm
2-Isopropoxy propane	(CH3)2CH0CH(CH3)2	108-20-3	A		MC	500,00	ppm
2-Mercaptoacetic acid	HSCH2CDDH	68-11-1	A2B2	P3	MC	1	ppm
2-metcaptoacetic acto	CH30CH2CH2OH	109-86-4	A		MC	5,00	ppm
2-Methylacrylic acid	CH2=C(CH3)COOH	79-41-4	A	P3	MC	20	ppm
				P3	MC	1	
2-methylpropenenitrile	CH2=C(CH3)CN	126-98-7	AB 450	13			ppm
2-Methylpropyl acetate	CH3COOCH2CH(CH3)2	110-19-0	A		MC	150.00	ppm
2-Oxetanone	C3H402	57-57-8			ARI or A AIR		
2-Pentanol acetate	CH3CDOCH(CH3)C3H7	626-38-0	A		MC	125	ppm
2-Phenyl propylene	C8H5C(CH3)=CH2	98-83-9	A		MC	50,00	ppm
2-propenamide	CH2=CHCDNH2	79-06-1	A	P3	MC	0,30	mg/m3
2-propenenitrile	CH2=CHCN	107-13-1	A	P3	MC	2,00	ppm
2-Propenoic acid	CH2=CHCOOH	79-10-7	A		DM or MC	2,000	ppm
2-Propyl acetate	CH3COOCH(CH3)2	108-21-4	A		MC	250.00 (ST)	ppm
2-Propynyl alcohol	C3H3OH	107-19-7	A		MC	1	ppm
3,3°- dichlorobenzidine salts	NH2CIC6H3C6H3CINH2	91-94-1	A	P3	MC		
3,3°-dimethylbenzidine	C14H16N2	119-93-7	A	P3	MC	0,02	mg/m
3,5,5- trimethylcyclohex- 2- enone	C9H140	78-59-1	A		MC	4,00	ppm
3,5,5- crimetriyicyclonex- z- enone 3a,4,7,7a-Tetrahydro-4,7-methanoindene	C10 H12	70-08-1	A	P3	MC	5,00	ppm
			-	rð			
3-Heptanone 3-Methyl-1-butanol acetate	CH3CH2CO[CH2]3CH3	108-35-4	A		MC DM at MO	50	ppm
	CH3COOCH2CH2CH(CH3)2	123-92-2	A	1	DM or MC	100	ppm
3-Methyl-5-heptanone	C2H5COCH2CH(CH3)CH2CH3	541-85-5	A		MC	25	ppm



### TWA

TIME WEIGHTED AVERAGE Average Exposure limit over an **8 hour** time period

### STEL

SHORT TERM EXPOSURE LIMIT Should not be longer than 15 minutes Should not occur more than 4 times per day with at least 60 minutes between exposures



Substances	Chemical formula	N° CAS	Gas filter	Particles filter	MC/DM*	OEL	Unit of measure- ment
4.4-Methylenedianiline (mda)	CH2(C6H4NH2)2	101-77-9	A	P3	MC	0,01	ppm
4-Hydroxy-4-Methyl-2-Pentanone	CH3COCH2C(CH3)2OH	123-42-2	Α		MC	50	ppm
4-Nitroaniline	C6 H6 N2 O2	100-01-6	A	P3	MC	6	mg/m3
4-nitrochlorobenzene	CIC6H4N02	100-00-5	AB	P3	MC	1,00	mg/m3
5-Methyl-2-hexanone	CH3COCH2CH2CH(CH3)2	110-12-3	A		MC	50	ppm
6,9-methano- 2,4,3-benzo-dioxathiepin-3-oxide	C9H6CI6O3S	115-29-7	A	P3	MC	0	mg/m:
Acetaldehyde Acetia coid	CH3CHD	75-07-0	AX		MC	100	ppm
Acetic acid Acetic ester	CH3COOH CH3COOC2H5	64-19-7 141-78-6	A	P3	MC MC	10.00 400.00	ppm ppm
Acetic axide	(CH3CO)20	108-24-7	A		MC	400.00	ppm
Acetylene	C2H2	74-86-2	^		ARI or A AIR	2500	ppm
Acraldehyde	CH2=CHCHO	107-02-8	AX 450		MC	0	ppm
Age	C6H1002	106-92-3			MC	5	
Aye Aldrin	C12H8CI6	309-00-2	A	P3	DM or MC	0.25	ppm mg/m
Alpha- chlorotoluene	C6H5CH2CI	100-44-7	A	rJ	MC	1	ppm
Alpha-chloroacetophenone	C6H5C0CH2CI	532-27-4	ABEK	P3	MC	0,30	ppm
Alpha-starch	(C6H1005)n	9005-25-8		P3	MC	5,00	mg/m
Aluminium metal (respirable dust)	Al	7429-90-5		P2/P3	DM or MC	5,000	mg/m
Aluminum trioxide	AI203	1344-28-1		P3	DM or MC	4	mg/m3
Amidocyanogen	NH2CN	420-04-2		P3	DM or MC	2,000	mg/m
Aminocyclohexane	C6H11NH2	108-91-8	A	10	DM or MC	10,000	ppm
Aminodimethylbenzene	(CH3)2C6H3NH2	1300-73-8	K		DM of MC	2	ppm
Aminomethane	CH3NH2	74-89-5	K		MC	10	ppm
Ammonia	NH3	7664-41-7	K		MC	25	ppm
Ammonium amidosulfonate	NH40S02NH2	7773-06-0		P3	MC	5,00	mg/m
Ammonium chloride	NH4CI	12125-02-9	К	P	MC	10	mg/m
Amyl acetic ether	CH3COO(CH2)4CH3	628-63-7	A		MC	100	ppm
Anhydrous hydrogen bromide;	HBr	10035-10-6	B	P3	MC	3	ppm
Anone	C6H100	108-94-1	A	10	DM or MC	25,000	ppm
Antimony and compounds (as sb)	Sb	7440-36-0		P3	MC	MEL	mg/m
Antimony hydride	SbH3	7803-52-3		10	ARI or A AIR	0	ppm
Antimony trioxide	03 Sb2	1309-64-4		P3	DM or MC	0.500	mg/m
Argon	Ar	7440-37-1		10	ARI or A AIR	0,000	ppm
Arsenic & compounds except arsine	As	7440-38-2		P3	MC	0.15	mg/m
Arsenic trihvdride	AsH3	7784-42-1		10	ARI or A AIR	0,020	ppm
Arsenic trioxide	As203	1327-53-3			ARI or A AIR	0,200	mg/m:
Artificial barite	BaSO4	7727-43-7		P3	MC	0,50	mg/m
ASBESTOS, amiante	Hydrated mineral silicates	1332-21-4	PAPR	P3	MC	MEL	fibres/n
Asphalt, petroleum fumes	n/ a	8052-42-4			ARI or A AIR	5	mg/m
Atrazine (iso)	C8H14CIN5	1912-24-9		P3	DM or MC	5,000	mg/m
Azimethylene	CH2N2	334-88-3	ABEK	P3	MC	0,20	ppm
Azirane	C2H5N	151-56-4	K 450		MC		ppm
Azium	NaN3	26628-22-8		P3	DM or MC	0	mg/m3
Azodicarbonamide	C2H4N4O2/NH2CON=NCONH2	123-77-3	A	P3	MC	MEL	mg/m
Barium compounds soluble (as ba)	Ba	7440-39-3		P2/P3	DM or MC	1	mg/m
Basudin®	C12H21N2O3PS	333-41-5	BE	P3	MC	0,10	mg/m
BCME (Bis (chloromethyl) ETHER)	(CH2CI)20	542-88-1	A2	P3	MC	0,05	mg/m3
Benomyl (isa)	C14H18N4D3	17804-35-2	A	P3	DM or MC	5,000	mg/m3
Benzenamine	C6H5NH2	62-53-3	A	P3	MC	2,00	ppm
Benzene	C6H6	71-43-2	A 450		MC	1,00	ppm
Benzene chlaride	C6H5CI	108-90-7	A		DM or MC	75,000	ppm
Benzene hexahydride	C6 H12	110-82-7	Α		DM or MC	300,000	ppm
Benzyl butyl phthalate	C19 H20 O4	85-68-7	A	Р	DM or MC	5,000	mg/m3
Beryllium and compounds	Be	7440-41-7		P3	MC	VLE	mg/m3
Beta-Aminoethyl alcohol	NH2CH2CH2OH	141-43-5	A		MC	3	ppm
Beta-Hydroxypropyl acrylate	CH2=CHCODCH2CHOHCH3	999-61-1	A		MC	1	ppm
BGE	C7 H14 O2	2426-08-6	A		MC	5,60	ppm
Biotite	H2KAI3(SiO4)3	12001-26-2		P3	DM or MC	3,000	mg/m
Bipotassium chromate	K2 Cr 04	7789-00-6			ARI or A AIR		mg/m
Bis( 2- ethylhexyl) phthalate	C24H38O4	117-81-7	A	P3	DM or MC	5,000	mg/m
Bis( 2,3- epoxypropyl) ether	C8H1003	2238-07-5	A	P3	MC	0,10	ppm
Bismuth telluride	Bi2Te3	1304-82-1		P3	MC	5,00	mg/m
Borates, (tetra) sodium salts	Na2B407	1330-43-4		P3	DM or MC	1,000	mq/m
Borax decahydrate	Na2B407 • 10H20	1303-96-4		P3	MC	5,00	mg/m
Boric anhydride	B203	1303-86-2		P3	DM or MC	10,000	mg/m
Bornan- 2- one	C10H160	76-22-2	A	P3	DM or MC	2,000	mg/m
Boron fluoride	BF3	7637 07 02			ARI or A AIR	1,000	ppm
Boron hydride	B2H6	19287-45-7	В	P3	MC	0,10	ppm
Bromacil (iso)	C9H13BrN2O2	314-40-9	AB	P3	DM or MC	1,000	ppm
Bromine	Br2	7726-95-6	B	P3	MC	0,10	ppm
Bromine fluoride	BrF5	7789-30-2	AX	10	MC	0,10	ppm
Bromoethane	CH3CH2Br	74-96-4	AX		MC	200,00	ppm
Bromoethylene	CH3CH2BI CH2=CHBr	74-90-4 593-60-2	AX		DM or MC	5,000	ppm
Bromoform	CHBr3	75-25-2	A		MC	0,50	ppm
			-			0,50	
Bromomethane Butane	CH3Br CH3CH2CH2CH3	74-83-9 106-07-8	AX AX		MC DM or MC	5 600,000	ppm
	CH3CH2CH2CH3	106-97-8 141-32-2	A		DM or MC MC	10,00	ppm ppm
Rutyl acrulate							
Butyl acrylate Butyl ester of 2-hydroxypropanoic acid	CH2=CHCOOC4H9 CH3CH(OH)COOC4H9	138-22-7	A	P3	DM or MC	5,000	ppm

This list is not contractual. It is an indicative list and in no way incurs the liability of DELTA PLUS.

Substances	Chemical formula	N° CAS	Gas filter	Particles filter	MC/DM*	OEL	Unitof measure- ment
Butyl methyl ketone /MBK	CH3CD[CH2]3CH3	591-78-6	A		MC	5,00	ppm
Butylamine Cadmium	CH3CH2CH2CH2NH2 Cd S	109-73-9 7440-43-9	BK	P3	MC DM or MC	5,00 VLE=0.05	ppm
Caesium hydroxide	CsOH	21351-79-1	В	P3	DM of MC	2,000	mg/m3 mg/m3
Calcium carbimide	CaCN2	156-62-7			ARI or A AIR	0,500	mg/m3
Calcium carbonate	CaCO3	1317-65-3		P3	DM or MC	5,000	mg/m3
Calcium hydrate	Ca(OH)2	1305-62-0		P3	DM or MC	5,000	mg/m3
Calcium monosilicate Calcium sulfate hemihvdrate	CaSi03 CaS04 • 0.5H20	1344-95-2 26499-65-0		P2/P3 P3	DM or MC DM or MC	5,000 5,000	mg/m3 mg/m3
Captafol (iso)	C10H9C114N02S	2425-06-1	A	rJ	MC	0,10	mg/m3
Carbaryl (iso)	CH3NHCOOC10H7	63-25-2	A		DM or MC	5,000	mg/m3
Carbofuran (iso)	C12H15NO3	1563-66-2	Α	P3	DM or MC	0,100	mg/m3
Carbolic acid	C6H5OH	108-95-2	A	P3	MC	5	ppm
Carbon black Carbon dioxide	C 012	1333-86-4 124-38-9		P3	MC ARI or A AIR	3,50 5000,000	mg/m3 ppm
Carbon disulphide	C S2	75-15-0	AX		MC	10,00	ppm
Carbon hexachloride	CI3CCCI3	67-72-1	A	P3	MC	1,00	ppm
Carbon monoxide	CD	630-08-0			ARI or A AIR	30,000	ppm
Carbon tetrachloride	CCI4	56-23-5	Α		MC	2,00	ppm
Carbonyl chloride	COCI2	75-44-5	B	P3	MC	0,10	ppm
Carboxyethane CB	CH3CH2COOH CH2BrCl	79-09-4 74-97-5	A	P3	MC MC	10 200,00	ppm ppm
Cd: Cadmium	Cd0/Cd	1306-19-0	A	P3	MC	VLE=0,05	ma/m3
Cellosolve®	C2H5OCH2CH2OH	110-80-5	A		MC	0,50	ppm
Cellulose	(C6H1005)n	9004-34-6		P3	DM or MC	5,000	mg/m3
Cement	as Portland Cement	65997-15-1		P2/P3	DM or MC	10,000	mg/m3
Chlordan Chlorine	C10H6CI8 CI2	57-74-9 7782-50-5	A	P3	DM or MC MC	0,500	mg/m3 ppm
Chlorine fluoride	CIF3	7790-91-2	B		MC	0,10	ppm
Chlorine axide	CI 02	10049-04-4	B		DM or MC	0,100	ppm
Chloroacetic acid chloride	CICH2COCI	79-04-9	A	P3	MC	0,05	ppm
Chlorocyanide	CICN	506-77-4	B 450		MC ADL es A AUD	0,30	ppm
Chlorodimethyl ether Chloroethane	CH30CH2CI CH3CH2CI	107-30-2 75-00-3	AX		ARI or A AIR DM or MC	1000,000	ppm
Chloroéthanoic acid	CICH2COOH	79-11-8	AA	P3	MC	0	ppm
Chloroethene	CH2=CHCI	75-01-4	AX		MC	1,00	ppm
Chloroform	CHCI3	67-66-3	AX		MC	2,00	ppm
Chloromethane	CH3CI	74-87-3			ARI or A AIR	100,000	ppm
Chloropicrin Chlorosulfuric acid	CCI3NO2	76-06-2	E	P3	MC MC	0,10	ppm
Chlorothene	HCLO3S CH3CCI3	7790-94-5 71-55-6	A	P3	MC	1,00	mg/m3 ppm
Chlorpyrifos	C9H11Cl3NO3PS	2921-88-2	A	P3	DM or MC	0,200	mg/m3
Chromic acid (cro3)	Cr03	1333-82-0	BE	P3	MC	0,05	mg/m3
Chromium	Cr	7440-47-3		P3	MC	0,50	mg/m3
Cobalt and compounds (as co)	Co	7440-48-4		P2/P3	DM or MC	VLE	mg/m3
Copper, dusts and mists Craq® herbicide No. 1	Cu C6H3Cl2OCH2CH2OSO3Na	7440-50-8 136-78-7		P3 P3	MC MC	1,00	mg/m3 mg/m3
Cresols (all isomers)	C7 H8 O	1319-77-2	A	P3	MC	5,00	ppm
Cumene	C6H5CH(CH3)2	98-82-8	А		MC	50,00	ppm
Cyanogen chloride, (as -cn)	C- N	57-12-5	В	P3	MC	5,00	mg/m3
Cyclohexene	C6 H10	110-83-8	A		DM or MC	300,000	ppm
Cyclohexylmethane DBP	CH3C6H11 C6H4(CODC4H9)2	108-87-2 84-74-2	A	P3	DM or MC MC	400,000 5,00	ppm mg/m3
Dca	C2Cl2	7572-29-4	A	rJ	ARI or A AIR	0,100	ppm
DDH	C5H6CI2N2D2	118-52-5	ABEK	P3	MC	0,20	mg/m3
DDT	(C6H4CI)2CHCCI3	50-29-3		P3	MC	1	mg/m3
Di- N- Butyl Phoshate	(C4H9O)2(OH)PO	107-66-4	A	P3	MC	1,00	ppm
Diallyl phthalate Diammonium permediaulobata	C14 H14 D4 N2 H8 S2 D8	131-17-9	A	P3 P3	DM or MC MC	5,000	ppm mg/m3
Diammonium peroxodisulphate Dianiline (mboca)	CH2(C6H4CINH2)2	7727-54-0	A	P3	MC	1,00	mg/m3
Diatomaceous earth, natural, respirable dust	Si02	68855-54-9		P3	MC	1,20	mg/m3
DIBENZ(a, h) ANTHRACENE	C22 H14	65996-93-2	A	P3	MC	0,10	mg/m3
Dibenzayl peraxide	(C6H5CO)2O2	94-36-0	A	P3	DM or MC	5,000	mg/m3
Dibromochloropropane	CH2BrCHBrCH2CI	96-12-8			ARI or A AIR	0,001	ppm
Dibutyl phosphate Dibutylated hydroxytelyape	(C4H9O)2(OH)PO (C(CH3)3)2CH3C6H2OH	107-66-4 128-37-0	A	P3 P	MC	1,00 10,00	ppm ma/m2
Dibutylated hydroxytoluene Dichloromethane	CH2Cl2	75-09-2	AX	r	MC	50,00	mg/m3 ppm
Dichloromethyl ether	(CH2CI)20	542-88-1	A2	P3	MC	0,05	mg/m3
Dicyanogen	NCCN	460-19-5	BK		DM or MC	10,000	ppm
Dicyclohexyl phthalate	C20 H26 04	84-61-7	A	P3	DM or MC	5,000	ppm
Dieldrin (iso) Diethyl ether	C12H8CI60	60-57-1 60-29-7	A AX	P3	DM or MC MC	0,250 400,00	mg/m3
Diethyl ether Diethyl phthalate	C2H5OC2H5 C6H4(CODC2H5)2	84-66-2	AX	P3	MC DM or MC	400,00	ppm mg/m3
Diethyl sulphate	C4 H10 O4 S	64-67-5	A	P3	MC	VLE	ppm
Diethylene imidoxide	C4H9ON	110-91-8	A		MC	20	ppm
Difluorodibromomethane	CBr2F2	75-61-6			ARI or A AIR	100,000	ppm
Diisodecyl phthalate	C28 H46 O4	26761-40-0	A	P3	DM or MC	5,000	mg/m3
Diisononyl phthalate Diisooctyl phthalate	C26 H42 D4 C24 H38 D2	28553-12-0 27554-26-3	A	P3 P3	DM or MC DM or MC	5,000 5,000	mg/m3 mg/m3
Diisooctyi phthalate Diisopropylamine	((CH3)2CH)2NH	2/554-26-3	K	rð	UM OF MC MC	5,000	ppm
Dimethyl carbinol	(CH3)2CH0H	67-63-0	A		MC	400	ppm
Dimethyl ester of 1,2-benzenedicarboxylic acid	C6H4(COOCH3)2	131-11-3	A	P3	MC	5,00	mg/m3
Dimethyl ether	H6 C2 O	115-10-6			ARI or A AIR	400,000	ppm
Dimethyl methane	CH3CH2CH3	74-98-6		-	ARI or A AIR	1000,000	ppm
Dimethyl sulphate Dimethylacetone	(CH3)2SO4 CH3CH2COCH2CH3	77-78-1	A	P3	MC DM or MC	0,10 200,000	ppm
Dimethylacetone Dimethylaminoethanol	CH3CH2CUCH2CH3 C4H11NO/(CH3)2NCH2CH2OH	96-22-0 108-01-0	A		UM or MC MC	200,000	ppm ppm
Dimethylnitromethane	(CH3)2CH(NO2)	79-46-9	A	P3	MC	10,00	ppm
Dinitrogen tetroxide (N2D4),	N 02	10102-44-0	NO		MC	3,00	ppm
Diphenyl	C6H5C6H5	92-52-4	A	P3	MC	0,20	ppm
Diphenyl ether (vapor) Diphenyl ether (vapor)	C6H50C6H5	101-84-8	A	P3	MC	1,00	ppm
	H2 K2 08 S2	7727-21-1	AB	Р Р3	MC DM or MC	1,00	mg/m3 mg/m3
Dipotassium peroxodispulphate (measured as s2o8)*	Свизызиньшиценаза	330_6/.1					111y/111ð
Direx®	C6H3Cl2NHCON(CH3)2 Na2 OB S2	330-54-1 7775-27-1	A	P3	MC	1,00	
Direx®		330-54-1 7775-27-1 1303-96-4	A	_			mg/m3 mg/m3
Direx® Disodium peroxodisulphate (measured as s2o8)	Na2 08 S2	7775-27-1	A	P3	MC	1,00	mg/m3

Substances	Chemical formula	N° CAS	Gas filter	articles filter	MC/DM*	OEL	Unitof easure- ment
Disulphur dichloride	S2 CI2	10025-67-9	В	P3	MC	1,00	ppm
Divanadium pentaoxide (as v)	V205	1314-62-1		P3	MC	VLE=0,005	mg/m3
DMAC	CH3CON(CH3)2	127-19-5	A		DM or MC	10,000	ppm
DMF	HCON(CH3)2 (CH3)2NNH2	68-12-2 57-14-7	A K 450		MC MC	10,00	ppm ppm
Eca	06H7N02	7085-85-0	AXB	P3	MC	2	mg/m3
Elemental selenium	Se	7782-49-2		P3	MC	0	mg/m3
Endrine Ethane	C12H8CI6D C2 H6	72-20-8 74-84-0		P3	MC	0,10	mg/m3
Ethanedioic acid	C2 H6 HOOCCODH • 2H2O	/4-84-U 144-62-7		P3	ARI or A AIR MC	1	ppm mg/m3
Ethanethiol	CH3CH2SH	75-08-1	AX	P3	MC	1	ppm
Ethyl acetone	CH3COCH2CH2CH3	107-87-9	A		MC	200	ppm
Ethyl acrylate Ethyl alcohol	CH2=CHCOOC2H5	140-88-5	A		MC MC	5,00	ppm
Ethyl chloroformate	CH3CH2OH C3H5ClO2 / ClCODC2H5	64-17-5 541-41-3	A		ARI or A AIR	1000	ppm ppm
Ethyl ester of formic acid	CH3CH2OCHO	109-94-4	AX		MC	100	ppm
Ethyl methyl ketone	CH3COCH2CH3	78-93-3	A		MC	200,00	ppm
Ethyl nitrile Ethyl parathion	CH3CN (C2H50)2P(S)0C6H4N02	75-05-8 56-38-2	A A2	P3	MC MC	40	ppm
Ethylamine	CH3CH2NH2	75-04-7	K	rə	MC	10,00	mg/m3 ppm
Ethylbenzene	CH3CH2C6H5	100-41-4	A		MC	100	ppm
Ethylene	C2 H4	74-85-1			ARI or A AIR		ppm
Ethylene bromide	BrCH2CH2Br	106-93-4	A		MC	0,05	ppm
Ethylene oxide Ferbam (iso)	C2H40 ((CH3)2NCS2)3Fe	75-21-8 14484-64-1	AX	P3	MC MC	5,00 10	ppm mg/m3
Ferrocene	C10 H10 Fe	102-54-5	A	P	MC	10	mg/m3
Fluoride (as f)	F	16984-48-8	AB	P3	DM or MC	3	mg/m3
Fluorine-19	F2	7782-41-4	B		MC	1,00	ppm
Formal Formaldehvde	CH3OCH2OCH3 HCHO	109-87-5 50-00-0	AX ABE		MC MC	1000,00 0,50	ppm ppm
Formamide	HCONH2	75-12-7	ADC	P3	MC	10,00	ppm
Formic acid	HCOOH	64-18-6	B / BE	P3	MC	5	ppm
Formonitrile	HCN	74-90-8	В	P3	MC	2,00	ppm
Freon® 112 Freon® 112a	CCI2FCCI2F CCI3CCIF2	76-12-0 76-11-9	A		MC MC	500,00 500,00	ppm ppm
Freen® 113	CCI2FCCIF2	76-13-1			ARI or A AIR	1000	ppm
Freon® 114	CCIF2CCIF2	78-14-2			ARI or A AIR	1000,000	ppm
Freon® 12	CCI2F2	75-71-8			ARI or A AIR	1000,000	ppm
Freon® 21 Freon® 22	CHCI2F CHCIF2	75-43-4 75-45-6			ARI or A AIR ARI or A AIR	10,000 1000,000	ppm ppm
Germanium tetrahydride	GeH4	7782-65-2			ARI OF A AIR	000,000	ppm
Glycerol	HOCH2CH(OH)CH2OH	56-81-5	A	P3	MC	5,00	mg/m3
Glycidyl phenyl ether	C9H1002	122-60-1	A		MC	1	ppm
Glycol dinitrate	02N0CH2CH2ON02 C	628-96-6 7440-44-0	A	P P2/P3	MC DM or MC	0,20 5,000	ppm
Graphite Guthion®	C10H1203PS2N3	86-50-0	A	P2/P3	DM or MC DM or MC	0,000	mg/m3 mg/m3
Gypsum	Ca S 06 H4	10101-41-4		P3	MC	4	mg/m3
Hafnium	Hf	7440-58-6		P3	MC	1	mg/m3
Halon® 1301	CBrF3	75-63-8			ARI or A AIR	1000,000	ppm
Helium Heptan- 2- one	He CH3CO(CH2)4CH3	110-43-0	A		ARI or A AIR MC	100	ppm ppm
Hexachlorobenzene	C8 C16	118-74-1	A	P3	MC	0,03	mg/m3
Hexahydromethylphenol	CH3C6H100H	25639-42-3	A		MC	50	ppm
Hexalin Hexamethyl phosphoramide	C6H110H (( CH3) 2N) 3PD	108-93-0 680-31-9	A		MC ARI OU A AIR	50,00	ppm
Hexane	CH3[CH2]4CH3	110-54-3	A		DM ou MC	50	ppm
Hydrated lime	Ca(OH)2	1305-62-0		P3	DM or MC	5,000	mg/m3
Hydrazine	H2NNH2	302-01-2	К	P3	MC	0,10	ppm
Hydrazinobenzene Hydrazoic acid (as vapour)	C6H5NHNH2 H N3	100-63-0 7782-79-8	A K	P3 P3	DM or MC MC	0,140 0	ppm ppm
Hydrogen	H2	1333-74-0 ?	N N	Pa	ARI or A AIR	U	ppm
Hydrogen chloride	H CI	7647-01-0	В	P3	MC	5,00	ppm
Hydrogen fluoride (as f)	HF	7664-39-3	B 450 B/BE/	P3	MC	3.00 (ST)	ppm
Hydrogen nitrate	HND3	7697-37-2	NO	P3	MC	2	ppm
Hydrogen peroxide Hydrogen phosphide	H202 PH3	7722-84-1 7803-51-2	AB	P3	MC MC	0,10	ppm ppm
Hydrogen sulfate	H2SD4	7664-93-9	BE 450	P3	MC	1	mg/m3
Hydrogen sulphide	H2 S	7783-06-4	В		MC	10	ppm
Hydroquinone monomethyl ether	CH3OC6H4OH	150-76-5		P3	MC	5	mg/m3
Hydrous magnesium silicate Hyponitrous acid anhydride	Mg3Si4010(0H)2 N2 0	14807-96-6 10024-97-2	NO	P3	MC MC	2,00 25,000	mg/m3 ppm
Impure corundum	NZ U AI203	1302-74-5	NU	P3	DM or MC	20,000	mq/m3
Indium and compounds (as in)	In	7440-74-6		P3	MC	0	mg/m3
Indonaphthene	C9 H8	95-13-6	A		MC	10	ppm
lodine	12	7553-56-2	IPR	P3	MC	0,10	ppm
lodomethane Iron (III) oxide	CH3I Fe2O3	74-88-4 1309-37-1	AX	P3	MC DM or MC	VLE=2 5	ppm mg/m3
Iron oxide, fume (as fe)	Fe203	1309-37-1		P3	DM or MC	5	mg/m3
Iron pentacarbonyl	Fe(CO)5	13463-40-6	A	P3	MC	0	ppm
Isobutanol	(CH3)2CHCH2OH	78-83-1	A		MC	50	ppm
Isobutenyl methyl ketone Isoflurane	(CH3)2C=CHCOCH3 C3 F5 H2 CI O	141-79-7 26675-46-7	A		MC ARI or A AIR	10,00 50	ppm ppm
Isophorone diamine diisocyanate	C12H18N2O2	4098-71-9	A		MC	VLE=0,01	ppm
Isopropyl chloroformate	C4H7ClO2/(CH3)2CHOCOCI	108-23-6	A	P3	MC	? 1.00	ppm
Isovalerone	((CH3)2CHCH2)2CO	108-83-8	A		MC	25,00	ppm
	C20H2803 / C21H2805 C21H3003 /	8003-34-7	A	P3	MC	5.00	mg/m3
Jasmolin I or II	C22H3005 C21H28N3 / C22H28N5			P3	DM or MC	5	mg/m3
Jasmolin I or II Kaolin	C22H3005 C21H2803 / C22H2805 (Al2Si2D5(0H)4)2	1332-58-7					
		1332-58-7 463-51-4			ARI or A AIR	1	ppm
Kaolin Keto-ethylene Ketone propane	(Al2Si2O5(OH)4)2 CH2=CO (CH3)2CO	483-51-4 67-64-1	AX		MC	500	ppm
Kaolin Keto-ethylene Ketone propane Lead and compounds (except lead alkyls)	(Al2Si2O5(OH)4)2 CH2=CO (CH3)2CO Pb	463-51-4 67-64-1 7439-92-1	AX	P3	MC MC	500 150,00	ppm µg/ m3
Kaolin Keto ethylene Ketone propane Lead and compounds (except lead alkyls) Lepidolite	(Al2Si205(0H)4)2 CH2=CO (CH3)2CO Pb n/ a	463-51-4 67-64-1 7439-92-1 12001-26-2	AX	P3	MC MC DM or MC	500 150,00 3,000	ppm µg/ m3 mg/m3
Kaolin Keto-ethylene Ketone propane Lead and compounds (except lead alkyls)	(Al2Si2O5(OH)4)2 CH2=CO (CH3)2CO Pb	463-51-4 67-64-1 7439-92-1	AX		MC MC	500 150,00	ppm µg/ m3
Kadin Kato-athylene Katone propone Lead and compounds (except lead alkyls) Lepidolite Lime	(A252205(0H)A)2 CH2=00 (CH3)200 Pb n/ a Ca0	463-51-4 67-64-1 7439-92-1 12001-26-2 1305-78-8	AX	P3 P2/P3	MC MC DM or MC MC	500 150,00 3,000 2,00	ppm µg/ m3 mg/m3 mg/m3

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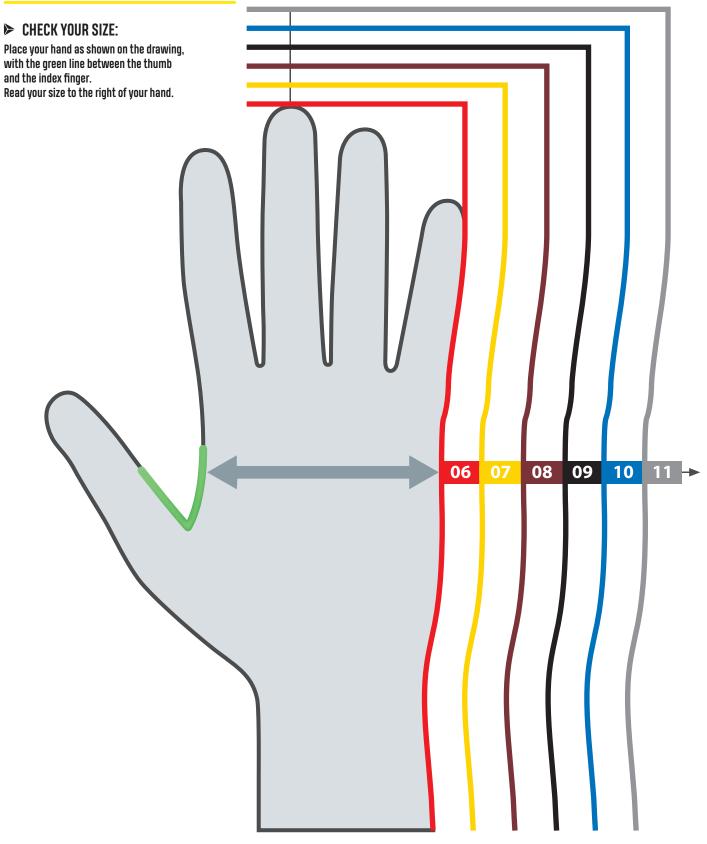
# TECHNICAL INFORMATION

Substances	Chemical formula	N° CAS	Gas filter	Particle. filter	MC/DM*	OEL	Unit of neasure
Magnesite	MgC03	546-93-0	1	P3	DM or MC	5,000	mg/m
Aggnesium oxide, fume and dust (as mg)	MgO	1309-48-4		P3	DM or MC	15	mg/m
Aalathion (iso)	C10H1906PS2	121-75-5	Α	P3	MC	10	mg/m
Manganese and compounds (as mn)	Mn	7439-96-5		P2/P3	DM or MC	1,000	mg/m
Aanganese tetroxide	Mn304	1317-35-7		P3	DM or MC	1	mg/m
Aanganese tricarbonylmethylcyclopentadieny Aargarite	CH3C5H4Mn(CO)3 n/ a	12108-13-3 12001-26-2	A	P3 P3	MC DM or MC	0 3,000	mg/m mg/m
/D	C5H5Mn(CD)3	12079-65-1	A	P3	DM or MC	0,100	mg/m
ADI	CH2(C8H4NCD)3	101-68-8	A	P3	MC	0,01	ppm
Aecrylate	CH2=C(CN)COOCH3	137-05-3	Α	P3	MC	2,00	ppm
Aercury & its inorganic divalent compounds	Hg	7439-97-6	Hg	P3	DM or MC	0,050	mg/m
Mesitylene	C6H3(CH3)3	108-67-8	A		MC	25	ppm
Aethacrylate monomer	CH2=C(CH3)COOCH3	80-62-6	A		MC	100	ppm
Methane Methane tetrabromide	C H4 CBr4	74-82-8 558-13-4	A		ARI or A AIR DM or MC	1,400	ppm ma/m
Aethane tetramethylol	C(CH2OH)4	115-77-5	A	P3	MC	5	mg/m mg/m
/ethanethiol	CH3SH	74-93-1	AXB	10	MC	0,50	ppm
Aethanol	CH3OH	67-56-1	AX		MC	200	ppm
Aethomyl (iso)	CH3C(SCH3)NOC(O)NHCH3	16752-77-5		P3	MC	3	mg/m
Aethaxy-dtt	(C6H4OCH3)2CHCCI3	72-43-5	A	P3	DM or MC	15,000	mg/m
Aethyl acetate	CH3COOCH3	79-20-9	AX		MC	200.00	ppm
Aethyl ester of formic acid	HCOOCH3	107-31-3	AX		MC	100	ppm
Aethyl ester of isocyanic acid	CH3NCO	624-83-9	В	P3	MC	VLE=0,02	mg/m
Aethyl ethylene oxide	C3H6O	75-56-9	AX 450		MC	100,00	ppm
Nethyl parathion	(CH30)2P(S)0C8H4ND2	298-00-0	A2	P3	MC	0	mg/n
Aethyl phosphite	(CH30)3P	121-45-9	A	P3	MC	2	ppm
Aethyl propenoate	CH2=CHCODCH3	96-33-3	A		MC	10	ppm
AETHYL- t- BUTYL ETHER	C5 H12 O HCHO	1634-04-4	AX	P3	MC MC	25 0.50	ppm
Methylene oxide Methylstyrene	HCHO CH2=CHC6H4CH3	50-00-0 25013-15-4	ABE		MC	0,50	ppm
vetnyistyrene Alak	CH3COCH2CH2CH(CH3)2	25013-15-4	A		MC	50	ppm ppm
nak Nibc	(CH3)2CHCH2CH(OH)CH3	108-11-2	A		MC	25	ppm ppm
IMH	CH3NHNH2	60-34-4	AK	P3	MC	0,04	ppm
Allybdenum compounds (as mo)	Мо	7439-98-7		P3	MC	5	ma/n
Monochloropentafluoroethane	CCIF2CF3	76-15-3			ARI or A AIR	1000,000	ppm
Vonofluorotrichloromethane	CCI3F	75-69-4			ARI or A AIR	1000	ppm
N- Butyl chloroformate	C5 H10 CL 02	592-34-7	A	P3	MC	1,00	ppm
N- propyl acetate	CH3COOCH2CH2CH3	109-60-4	Α		MC	200.00	ppm
V, n- dimethylaniline	C6H5N(CH3)2	121-69-7	A	P3	MC	5,00	ppm
I,N'-Dimethyl-4,4'-bipyridinium dichloride	CH3(C5H4N)2CH3 • 2CI	1910-42-5	A	P3	MC	0,10	mg/m
laphthalene	C10H8	91-20-3	A	P3	MC	10,00	ppm
Vavadel®	C4H6O2[SPS(OC2H5)2]2	78-34-2	A	P3	MC	0,20	mg/m
Veon	Ne	7440 01 9			ARI or A AIR		ppm
N-Ethylethanamine	(C2H5)2NH	109-89-7	K + 450		MC	10,00	ppm
V-Ethylmorpholine	C6 H13 N O	100-74-3	A	P3	MC	5.00	ppm
Ng	CH2NO3CHNO3CH2NO3	55-63-0	A	P3	DM or MC	0,100	mg/m
Vickel and inorganic compounds	Ni	7440-02-0		P3	DM or MC	1,000	mg/m
Vickel carbonyl Vicotine	NI(CO)4 C5H4NC4H7NCH3	13463-39-3 54-11-5	A	P3	ARI or A AIR DM or MC	0.10 (ST) 1	ppm mg/m
Vitrapyrin	CIC5H3NCCI3	1929-82-4	AB	P3 P3	MOLWC	5,00	mg/m
Vitric nxide	NO	10102-43-9	nu	10	ARI or A AIR	25	ppm
Vitrocarbol	CH3N02	75-52-5	A	P3	MC	100	ppm
Nitroethane	CH3CH2ND2	79-24-3	A	P3	MC	100	ppm
Vitrogen	N2	7727-37-9			ARI or A AIR		ppm
Vitrogen trifluoride	NF3	7783-54-2			ARI or A AIR	10	ppm
Vitropropane	CH3CH2CH2NO2	108-03-2	A	P3	MC	25	ppm
N-methylmethanamine	(CH3)2NH	124-40-3	К		MC	10,00	ppm
VN- Dimethylethylamine	C4 H11 N	598-56-1	К	P3	MC	5,00	ppm
N-Nitroso-N,N-dimethylamine	(CH3)2N20	62-75-9	A	P3	MC		
Loctane	CH3[CH2]6CH3	111-65-9	A		MC	75,00	mg/m
Nonyphenols	C15H240	25154-52-3	A	P3	MC		
N-phenylmethylamine	C6H5NHCH3	100-61-8	A		DM or MC	1	ppm
I-Trichloromethylmercapto-4-cyclohexene 1,2-dicarboximide	C9HBCI3NO2S	133-06-2	A	P3	DM or MC	5,000	mg/m
Vux vomica	C21H22N2O2	57-24-9		P3	MC	0	mg/m
)- acetylsalicylic acid	CH3C00C6H4C00H	50-78-2		P2/P3	DM or MC	5.00	mg/m
)-anisidine	NH2C6H4OCH3	90-04-0	A	P3	MC	1	mg/m
I-dianisidine	(NH2C6H3OCH3)2	119-90-4		P3	DM or MC		
)-diphenylbenzene	C6H5C6H4C6H5	84-15-1		P3	DM or MC	1	ppm
lil mist, mineral		8012-95-1		P3	MC	5	mg/m
Dil of mirbane	C6H5NO2	98-95-3	A	P3	MC	1	ppm
)-nitrotoluene	N02C6H4CH3	88-72-2	A	P3	MC	2,00	ppm
Irtho-dichlorobenzene	C6H4Cl2	95-50-1	A	P2	MC	50,00	ppm
Inthophosphoric acid	H3PO4 CH3CH2CH(CH3)C6H4OH	7664-38-2	B	P3	MC	1.00 (ST) 5.00	mg/m
)-sec-Butylphenol Ismium oxide	CH3CH2CH(CH3JC6H4OH OSO4	89-72-5 20816-12-0	A	P3	MC MC	5,00 0	ppm ma/m
ismium oxide Ixooctyl alcohol	USU4 C7H15CH20H	20816-12-0 26952-21-6	A	rð	MC	50	mg/m
koudetyi aleonoi Izone	03	20952-21-0 10028-15-6	AXB2	P3	MC	0 0	ppm ppm
- Aramid respirable fibres	(C14 H10 O2 N2) n	26125-61-1	10.02	P3 P3	DM or MC	0.50	fibres/
- Alamia respirable ribres - toluenesulphonyl chloride	C7 H7 S O2 CI	98-59-9	AB	P3	DM of MC	5.00 (ST)	mg/m
Paracetamol	C8 H9 N 02	103-90-2	1.0	P3	DM or MC	10	mg/m
-Dioxane	C4H802	123-91-1	A	P3 P3	MC	10,00	ppm
Pentachlorophosphorus	PCI5	10026-13-8	B	P3	MC	1,00	mg/m
lentane	CH3[CH2]3CH3	109-66-0	AX		MC	120	ppm
Peracetic acid	C2H4O3	79-21-0	AB	P3	DM or MC		ppm
Peroxide de 2-Butanone	C8H16O4	1338-23-4	A	P3	MC	VLE=0,2	ppm
Phenyl phosphate	(C6H5O)3PO	115-86-6	A	P3	MC	3	mg/m
		122-39-4	A	P3	MC	10,00	mg/m
	(CBH5)2NH						
henylaniline	C6H5J2NH C6H5CH=CH2	100-42-5	A		MC	50,00	ppm
Yhenylaniline Yhenylethylene Yhorate			A A	P3	MC MC	50,00 0	ppm mg/m

Substances	Chemical formula	N° CAS	Gas filter	Particles filter	MC/DM*	OEL	Unit of measure-
Phosphorus pentoxide		1314-56-3	A	P3	DM or MC	2.00 (ST)	mg/r
Phosphorus trichloride	PCI3	7719-12 2	B 450	P3	MC	0	ррп
Phosphorus, yellow	P4	7723-14-0			ARI or A AIR	0	mg/r
Picloram (iso)	C6H3Cl302N2	1918-02-1	AB	P3	MC	5,00	mg/r
Piperazine hydrochloride	C4H10N2 HCI	142-64-3		P3	MC	5.00	mg/r
Piperidine	CH2(CH2)4NH	110-89-4	A		DM or MC	?	ppr
latinum metal	Pt	7440 06 4		P2/P3	DM or MC	5	mg/i
olychlorinated biphenyl	C6H3CI2C6H2CI3	11097-69-1	AB	P3	MC	0.10	mg/i
olychlorinated biphenyls (pcb's)	C12 H( 10- x) Clx	1336-36-3			ARI or A AIR	0.500	mg/
lotassium bromate	K Br 03	7789-01-2		P3	DM or MC		
lotassium hydroxide	KOH	1310-58-3		P3	MC	2.00 (ST)	mg/
Lauinane	0088440	106-51-4	A	P3	MC	0.10	
10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -				P3			ppr
rimary isoamyl alcohol	(CH3)2CHCH2CH2OH	123-51-3	A		MC	100	ppr
ropranolol	C16 H21 N O2	525-66-6	A	P3	DM or MC	2	mg/
ropylene	C3 H6	115-07-1			ARI or A AIR		ррг
ropylene glycol	as Propane- 1,2- diol	57-55-6	A	P3	DM or MC	150	ppr
ropylene glycol-1,2-dinitrate	CH3CN020HCHN020H	6423-43-4	A	P3	MC	0	ppi
vc (polyvinyl chloride) (resp. Dust)	(C2 H3 CI) N	9002-86-2		P3	MC	4	mg/
vridine	C5H5N	110-86-1	A	P3	MC	5	ppr
vrophosphate	Na4P207	7722-88-5		P3	MC	5	mg/
uartz	SiO2	14808-60-7		P3	DM or MC	0.050	
							mg/
DX	C3H6N606	121-82-4		P3	DM or MC	1,500	mg/
esorcinol	C8H4(OH)2	108-46-3	A	P3	MC	10	ppi
hodium (as rh) metal fume and dust	Rh	7440-16-6		P2/P3	DM or MC	0	mg/
otenone (iso)	C23 H22 O6	83-79-4	A	P3	MC	5	mg/
accarose	C12H22011	57-50-1		P2/P3	DM or MC	10	mg/
ec-Hexyl acetate	C8 H16 O2	108-84-9	A		MC	50	рр
eekay wax	C10H4Cl4	1335-88-2	A	P3	DM or MC	2	mq/
elenium dihvdride	H2 Se	7783-07-5			ARI or A AIR	0	pp
	Si02	7631-86-9		P3	MC	6.00	
ilica, amorphous (resp. Dust)							mg/
ilica, fused (resp. Dust)	02 Si	60676-86-0		P3	MC	0	mg/
ilicane	SiH4	7803-62-5			ARI or A AIR	5,000	ppr
ilicon (resp. Dust)	Si	7440-21-3		P3	MC	4	mg/
ilicon monocarbide	SiC	409-21-2		P3	DM or MC	5,000	mg/
ilver, metallic	Aq	7440-22-4		P3	MC	0	mg/
odium bisulphite	NaHS03	7631-90-5		P2/P3	MC	5	mg/
odium hydroxide	NaOH	1310-73-2		P3	MC	2.00 (ST)	mg/
odium metabisulphite	Na2S205	7681-57-4	В	P3	MC	5.00	mg/
,			в				
odium monofluoroacetate	FCH2COONa	62-74-8		P3	DM or MC	0	mg/
ubtilisins	Bacillus subtilis	1395-21-7			ARI or A AIR	0	mg/
ulfur fluoride	SF6	2551-62-4	BE	P3	MC	1000	ppr
ulfurous oxychloride	SOC12	7719-09-7	В	P3	MC	1.00 (ST)	ppr
ulphur dioxide	S02	7446-09-5	E		MC	2	ppr
ulphur pentafluoride	S2F10	5714-22-7	B	P3	MC	0,01	ppr
ulphur tetrafluoride	SF4	7783-60-0			ARI or A AIR	0	рр
	S02F2	2699-79-8	BE 450		MC		
ulphuryl difluoride						5	ppr
ym-dichloroethylene	CICH=CHCI	540-59-0	AX		MC	200,00	ppr
antalum	Ta	7440-25-7		P3	MC	5	mg/
CP	(CH3C6H4D)3PO	78-30-8	A	P3	DM or MC	0	mg/
DI	CH3C6H3(NCO)2	584-84-9	A2B2	P3	MC	VLE=0,01	ррг
EA	(C2H5)3N	121-44-8			MC	10,00	ррг
edo	((CH3CH20)2PS)20	3689-24-5	ABE	P3	MC	0	mg/
ellurium & compounds	Te	13494-80-9	THE	P2/P3	DM or MC	0	mg/
ellurium fluoride	TeFR	7783-80-4		F2/F3	ARI OF A AIR	0	
						-	pp
epp (iso)	((CH3CH20)2P0]20	107-49-3	A	P3	MC	0	mg/
ert-Butyl ester of acetic acid	CH3COOC(CH3)3	540-88-5	A		DM or MC	200	ррг
etrachloroethylene	CI2C=CCI2	127-18-4	A		MC	50,00	ррі
etraethyl silicate	(C2H5)4SiO4	78-10-4	A		MC	10	ppr
etramethyl silicate	(CH30)4Si	681-84-5	A		MC	1	ppr
stramethyl succinodinitrile	(CH3)2C(CN)C(CN)(CH3)2	3333-52-6	A	P3	DM or MC	1	pp
hallium, soluble compounds (as tl)		7440-28-0	A	P3	MC	0	
	TI C4H8D			rð			mg/
HF		109-99-9	A		MC	200	ppr
nio-4,4' bis (tert-butyl-6m-crésol)	[CH3(OH)C6H2C(CH3)3]2S	96-69-5		P3	DM or MC	5,000	mg/
hiophenol	C6H5SH	108-98-5	A		MC	0	ppr
niram (iso)	C6H12N2S4	137-26-8	A	Р	MC	5	mg/
n compounds, inorganic, except snh4 (as sn)	Sn	7440-31-5	1	P3	MC	2	mg/
tanium peroxide	Ti02	13463-67-7		P3	MC	4	mg/
MA	(CH3)3N	75-50-3	K		MC	10	ppr
oluene	C6H5CH3	108-88-3	A		MC	100,00	pp
ributyl ester of phosphoric acid	(CH3(CH2)3D)3PD	126-73-8	A	P3	MC	2,50	mq/
richloroethanoic acid	CCI3COOH	76-03-9	B	P3	MC	2,00	
ichloroethanoic acid ichlorohydrin		76-03-9 96-18-4		rð			pp
1	CH2CICHCICH2CI		A	- Pre-	MC	10,00	pp
icyclohexyltin hydroxide	(C6H11)3SnOH	13121-70-5	A	P3	MC	5,00	mg/
iglycidyl isocyanurate (tgic)	C12 H15 N3 06	2451-62-9	AB	P3	DM or MC	VLE	mg/
	CHI3	75-47-8	A		MC	0,60	ррг
iiodomethane	CICH=CCI2	79-01-6	A		MC	75,00	ppr
		75-65-0	A		MC	100	ррі
ilene	(CH3)3COH		A	P3	MC	1	mg/
ilene imethyl carbinol		118-9R-7	1 "	P3	MC	1	mg/
ilene imethyl carbinol initrotoluol	CH3C6H2(NO2)3	118-96-7 7640-33-7	1.00		110	1.000	-
ilene imethyl carbinol initrotoluol ungsten & compounds (as w) (soluble)	CH3C6H2(NO2)3 W	7440-33-7		10	MC	100	
ilene imethyl carbinol initrotoluol ungsten 6 compounds (as w) (soluble) urpentine	CH3C6H2(NO2)3 W C1D H16 (approx)	7440-33-7 8006-64-2	A		MC	100	
ilene imethyl carbinol initotoluol ungsten 6 compounds (as w) (soluble) upentine ranum compounds, netural, soluble (as u)	CH3C6H2(NO2)3 W C10 H16 (approx) U	7440-33-7 8006-64-2 7440-61-1		P3	MC	0	mg/
ilene imethyl carbinol initotoluol ungsten 6 compounds (as w) (soluble) upentine ranum compounds, netural, soluble (as u)	CH3C6H2(NO2)3 W C1D H16 (approx)	7440-33-7 8006-64-2	A				mg/
ilene imethyl carbinol introtoluol ungsten 6 compounds (as w) (soluble) urpentine anium compounds, natural, soluble (as u) ac	CH3C6H2(NO2)3 W C10 H16 (approx) U	7440-33-7 8006-64-2 7440-61-1			MC	0	mg/ pp
ritene irinettayl (arbinol irinettabuol urgentne renum compounds, netural, soluble (as u) ac DC	CH3CBH2(NO2)3 W C10 H16 (approx) U CH2=CH0OCCH3	7440-33-7 8006-64-2 7440-61-1 108-05-4	A	P3	MC MC	0 VLE =4	mg/ ppr ppr
ritene irinetabyl cardinol irintratoluol ungasten 6 compounds (as wi (soluble) ungasten 6 compounds, netural, soluble (as u) ac ac ac ac ac ac	CH3C8H2(N02)3 W C10 H16 (approx) U CH2=CH00CCH3 CH2=CD1 C19H1804	7440-33-7 8006-64-2 7440-61-1 108-05-4 75-35-4 81-81-2	A AX	P3 P3	MC MC MC DM or MC	0 VLE =4 VLE 0	mg/ ppr ppr mg/
ritene irinethyl carbinol initrotobulo umgstan & compounds (as w) (soluble) urgentine ranium compounds, netural, soluble (as u) ac DC Arafarin (iso) hitke spirit	CH3C8H2(N02)3 W C(10 H16 (approx) U CH2=CH00CCH3 CH2=CC1 C(19H1004 n/ a	7440-33-7 8006-64-2 7440-61-1 108-05-4 75-35-4 81-81-2 8052-41-3	A AX A	P3 P3	MC MC MC DM or MC MC	0 VLE =4 VLE 0 350,00	mg/ ppr ppr mg/ mg/
inicomethane inicomethane inicrobal inicrobal urgestan & compounds (as w) (soluble) urgentine arraiumi compounds, natural, soluble (as u) ac DC Arrainin (so) hite spirit Here (all somers). BEC (soa)	CH3C8H2(N02)3 W C10 H16 (approx) U CH2=CH00CCH3 CH2=CD1 C19H1804	7440-33-7 8006-64-2 7440-61-1 108-05-4 75-35-4 81-81-2	A AX	P3 P3	MC MC MC DM or MC	0 VLE =4 VLE 0	ppi mg/ ppi mg/ mg/ ppi mg/
ritene imethyl carbinol inintratoluol urgentine ramum compounds, natural, soluble (as u) ac Do Co Karfarin (iso) Thite spint (fare fall somers)	CH3C6H2(N02)3 W C10 HI6 (approx) U CH2=CH00CCH3 CH2=CCI C19HIB0A n/a C8H10 C8H00 C8H00 Y	7440-33-7 8006-64-2 7440-61-1 108-05-4 75-35-4 81-81-2 8052-41-3 1330-20-7	A AX A	P3 P3 P2/P3 P3 P3	MC MC DM or MC MC MC MC MC	0 VLE =4 VLE 0 350,00	mg/ ppi ppi mg/ mg/ ppi
ritene irinettiy (soluble) irintrotoluol ungsten 6 compounds (as w) (soluble) ungsten 6 compounds, netural, soluble (as u) ac ac ac ac ac ac ac ac bc leafarin (iso) hite spint (were fall somes) .BHC (so) LThum o chickle, fume	CH3C6H2(N02)3 W C(10 HI6 (sptrac) UH2-CH00CCH3 CH2-CC1 C(HH80A N/a C8H10	7440-33-7 8008-64-2 7440-61-1 108-05-4 75-35-4 81-81-2 8052-41-3 1330-20-7 58-89-9 7440-65-5 7846-85-7	A AX A	P3 P3 P2/P3 P3 P3 P3 P3	MC MC DM or MC MC MC MC MC MC	0 VLE =4 VLE 0 350.00 100 1 1 1 1	mg/ ppr mg/ mg/ ppr mg/ mg/ mg/
ritene imettny (arbinol inintrotoluol urgentine argistin 6 compounds (as w) (soluble) urgentine ararum compounds, natural, soluble (as u) ac DC Jarfarin (iso) Arita spint Area (fall somers) BRC (iso) BRC (iso)	CH3C6H2(N02)3 W C10 HI6 (approx) U CH2=CH00CCH3 CH2=CCI C19HIB0A n/a C8H10 C8H00 C8H00 Y	7440-33-7 8008-64-2 7440-61-1 108-05-4 75-35-4 81-81-2 8052-41-3 1330-20-7 58-89-9 7440-85-5	A AX A	P3 P3 P2/P3 P3 P3	MC MC DM or MC MC MC MC MC	0 VLE =4 VLE 0 350.00 100 1	mg/ ppr mg/ mg/ ppr mg/ mg/

\*MC/DM = Overall masks / Half-mask

### HAND MEASURING



### THE EUROPEAN STANDARDS

#### EN420 En ISO 21420

### ► GENERAL REQUIREMENTS

The reference standard, cannot be used alone, but only in combination with another standard containing protection performance requirements.

- Conform to harmlessness (pH, chrome VI levels, etc...).
- Conform to the size charts (see chart on below).
- Pass the dexterity test.
- Conform to the labelling, information and identification instructions.

SIZES AS PER STANDARD EN420									
Glove size	Palm circumference (mm)	Length (mm)	Minimal length						
₩►►₩	₩	₩ <u>↓</u>	(mm)						
6	152	160	220						
7	178	171	230						
8	203	182	240						
9	229	192	250						
10	254	204	260						
11	279	215	270						
12	304	226	280						

### STANDARDIZED LABELING/IDENTIFICATION

Each protective glove is clearly identified by a standardized label containing the following elements:

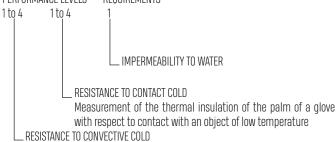
- Our brand logo ;
- The product reference or the trade name ;
- The size ;
- An information tag indicating that instructions are available for the product ;
- The standardization pictogram(s) with their performance ratings.

### EN511 🕨 COLD RISK

The EN511 standard defines the requirements and test methods for cold protection gloves from cold transmitted by convection or conduction down to -30°C (optionally up to -50°C). This cold can be from climatic conditions or industrial activity.

The selection process of a cold protection glove must take into account several parameters such as the ambient temperature, the health of the person, the duration of exposure, and the level of activities...

### PERFORMANCE LEVELS REQUIREMENTS



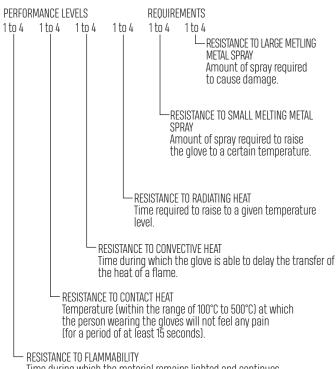
Measurement of the thermal insulation of a glove with respect to an ambient atmosphere.

PERFORMANCE Level	INTENSE ACTIVITY	AVERAGE ACTIVITY	SLOW ACTIVITY
1	-10°C ≤ T < 0°C		
2	-30°C < T	0°C ≤ T < 10°C	
3		-15°C < T	5°C < T
4		-30°C < T	-10°C < T



### EN407 ▷ HEAT AND FIRE RISK

The EN407 standard specifies the test methods, the general requirements, the thermal performance and the labelling of gloves to protect from heat and fire. It applies to all gloves which must protect hands from heat and/or flames in any one or several of the following forms: fire, contact heat, convective heat, radiating heat, small spray of molten metal or large spray of melting metal.



Time during which the material remains lighted and continues to be consumed after the ignition source has been eliminated.

PERFORMANCE Level	CONTACT TEMPERATURE °C	THRESHOLD TIME (second)
1	100°C	≥15 s
2	250°C	≥15 s
3	350°C	≥15 s
4	500°C	≥15 s

### EN12477 ▷ WELDERS RISK

Requirements and test methods for gloves used for manual welding of metals, for cutting and related techniques. Welder gloves are ranked in two types: B when great dexterity is required (e.g.: TIG welding), and A for other welding processes.





### ► AGAINST THE RISKS OF MICRO-ORGANISMS & CHEMICAL RISKS

Standard EN ISO374-1, protective gloves against chemicals and micro-organisms, specifies the performance requirements required for gloves for protecting users against chemical products and/or micro-organisms and defines the terms to be used:

• Penetration (tested as per standard EN374-2):

Diffusion of water or air, to check the impermeability, on a non-molecular level, of a chemical product and/or micro-organism through the porosities, seams, micro-holes or other imperfections present in the material of the protective glove.

- Degradation (tested as per standard EN374-4): Determination of the physical resistance of materials to degradation after continuous contact with hazardous chemicals.
- Permeation (tested as per standard EN374-3 or EN16523):

Process by which a chemical product diffuses through the material of a protective glove, by continuous contact, on a molecular level.

The EN ISO version of standard 374-1, introduces the concept of three types of protection against the permeation of chemicals:

Type A: The glove gives a performance index to permeation at least equal to 2 for 6 chemical test substances taken from the list of chemicals specified in the standard.

- Type B: The glove gives a performance index to permeation at least equal to 2 for 3 chemical test substances taken from the list of chemicals specified in the standard.

- Type C: The glove gives a performance index to permeation at least equal to 1 for 1 chemical test substances taken from the list of chemicals specified in the standard.

CODE Letter	CHEMICAL PRODUCT	N° CAS
А	Methanol	67-56-1
В	Acetone	67-64-1
С	Acetonitrile	75-05-8
D	Dichloromethane	75-09-2
E	Carbon disulfide	75-15-0
F	Toluene	108-88-3
G	Diethylamine	109-89-7
Н	Tetrahydrofurane	109-99-9
I	Ethyl acetate	141-78-6
J	n-Heptane	142-82-5
К	Caustic soda 40 % (NaOH or sodium hydroxide)	1310-73-2
L	Sulphuric acid 96 %	7664-93-9
М	Nitric acid 65%	7697-37-2
Ν	Acetic acid 99%	64-19-7
0	Ammonium hydroxide 25%	1336-21-6
Р	Hydrogen peroxide 30%	7722-84-1
S	Hydrofluoric acid 40%	7664-39-3
Т	Formaldehyde 37%	50-00-0

PASSAGE TIME MEASURED (MN)	PERFORMANCE INDEX To permeation
> 10 mn	1
> 30 mn	2
> 60 mn	3
> 120 mn	4
> 240 mn	5
> 480 mn	6

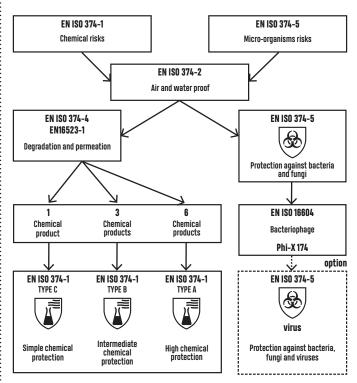


#### EN ISO 374-5 AGAINST THE DANGERS OF MICRO-ORGANISMS

EN ISO 374-5 specifies the requirements and test methods for protective gloves intended to protect the user against microorganisms (mold and bacteria, potentially viruses).

**Penetration of molds and bacteria** (tested according to EN374-2): Test by which the water and airtightness of a glove is checked.

**Penetration of viruses** (tested according to method B of ISO 16604): Process that determines the resistance to penetration by blood-borne pathogens - Test method using Phi-X174 bacteriophage :



### **Examples of application:**

The field of use is decisive because, depending on the case, the glove may have to combine several properties in order to meet the necessary protection requirements. It is therefore very important to refer to the recommended areas of use and the results of the laboratory tests found in the instructions for use. However, it is recommended to check that the gloves are suitable for the intended purpose by carrying out tests beforehand, because the conditions at the workplace may differ from those of the standard test, depending on the temperature, abrasion and degradation.

## HEAD PROTECTION TECHNICAL INFORMATION



#### EN388 ISO 23 388 ▷ MECHANICAL RISKS

The EN388 standard applies to all types of protective gloves with respect to physical and mechanical aggression from abrasion, cutting from slicing, perforation and tearing. Since the 2016 version of the standard, new optional performances have appeared.

PERFOR	RMANCE	LEVELS	REQUI	REMEN	TS	
1 to 4	1 to !	5 1 ta	04 1t	04	A to F	ø or P
						RESISTANCE TO IMPACT ON THE METACARPAL AREA Minimum attenuation of the impact force transmitted to the hand
						RESISTANCE TO CUTTING BY BLADE (TDM
						test) Force necessary for a straight blade to cut the sample on a movement of 20 mm.
				-Ford	ce req	CE TO PERFORATION uired to pierce the sample andardized punch.
				ANCE T num fo		RING quired to tear the sample.
		-Numbe		les req		A BLADE with a circular blade to cut the sample
A	BRASIO	N RESIS				

- Number of cycles required to damage the sample at constant speed.

TEST	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
ABRASION RESISTANCE (number of cycles)	100	500	2 000	8 000	-
BLADE CUTTING RESISTANCE (index)	1,2	2,5	5,0	10,0	20
TEAR RESISTANCE (N)	10	25	50	75	-
PUNCTURE RESISTANCE (N)	20	60	100	150	-

Impact resistance on the metacarpal area: if this performance is claimed, the "P" mark appears.

### Marking example:



TEST RESISTANCE To cut in ISO 13997 (TDM)	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
APPLIED FORCE (N)	2	5	10	15	22	30
Francisco of morthin						

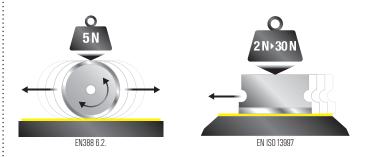
Examples of marking:



Cut by blade, 2 test methods:

**EN388 6.2.:** For low to middle risks of cutting. A circular blade on which a constant force of 5 N is applied, moves back and forth until the sample is cut. It measures the number of completed cycles and is credited with the corresponding level.

**EN ISO 13997:** For materials that blunt the blade during the EN388 6.2 test and/ or are particularly resistant, for high risk of cutting. A straight blade makes a single movement of 20 mm with a force of 2N, the test is repeated with a different force as many times as necessary until the sample is cut. A level corresponding to the force required to cut the sample is assigned. This method better represents the usage situations that present a high risk of cutting.



**ANSI ISEA (US American National Standards Institute) 105** Classification and specifications for the protection of the hand. Part 5.1.1. Cut resistance Weight necessary for a straight blade to cut the sample in a single movement.

Weight (g)	≥ 200	≥ 500	≥ 1000	≥ 1500	≥ 2200	≥ 3000	≥ 4000	≥ 5000	≥ 6000
2011 version - levels	1	2	3	4	5	-	-	-	-
2016 version - levels	A1	A2	A3	A4	A5	A6	A7	A8	A9



#### http://gloves.deltaplus.eu

This table provides only general information. Be careful! Glove resistance is influenced by other factors such as temperature, chemical product concentration, thickness, immersion time, and others.

For specific use conditions, we recommend testing the glove prior to use.

		latex	8		
	łs	Natural	Neoprene	Nitrile	viny
	n°CAS	Nat	Neo	Nitr	PVC vir
20% nitric acid	7697-37-2	**	**	*	*
30% and 5% hydrochloric acid 30% formaldehyde	7647-01-0 50-00-0	***	***	***	**
30% hydrofluoric acid	7664-39-3	**	***	***	**
50% acetic anhydride acid	1	***	***	***	***
85% lactic acid	100.71.0	*	***	***	***
85% triethanolamine 90% formic acid	102-71-6 64-18-6	***	***	***	***
Acetaldehyde	75-07-0	***	***	*	
Acetone	67-64-1	***	**		
Alcoholic beverages Ammonium acetate	631-61-8	***	***	***	***
Ammonium carbonate	10361-29-2	***	***	***	***
Ammonium chloride	12125-02-9	***	***	***	***
Amyi acetate	1		*	*	*
Amyl alcohol	71-41-0 62-53-3	***	***	***	***
Aniline Animal fats	02-03-3	**	**	*	
Asphalt	1	^	*	***	
Beet-root	/	***	***	***	***
Benzaldehyde	100-52-7			*	
Benzene Renzul alcohol	71-43-2	-	-to-to-	*	
Benzyl alcohol Bichromate of potash	100-51-6 7778-50-9	*	**	**	**
Bleach	///////////////////////////////////////	***	***	***	***
Borax	1	***	***	***	***
Brake oils (lockheed) Bromides	/	*	***	***	*
Butter	/	***	***	***	*
Butyl acetate	123-86-4		*	*	*
Butyl alcohol (or n-butanol)	71-36-3	***	***	***	***
Calcium acetate	82-54-4	***	***	***	***
Calcium chloride Calcium fluophosphate	10043-52-4	***	***	***	***
Calcium hydrate	1305-62-0	***	***	***	***
Calcium nitrate	10124-37-5	***	***	***	***
Carbolic acid	1	*	**	**	**
Carbon tetrachloride Castor oil	56-23-5		*	**	*
Chlorinated lime	7778-54-3	***	***	***	***
Chlorine	7782-50-5		***	***	***
Chloroacetone	1	***	***		
Chloroform Chromic acid	67-66-3 7738-94-5		*	**	
Citric acid	77-92-9	***	***	*	**
Concentrated ammonia (aqueous solution)	1336-21-6	***	***	***	***
Concentrated boric acid	10043-35-3	***	***	***	***
Concentrated laundry potash	1	***	***	**	***
Concentrated laundry soda Concentrated sulphuric acid	7664-93-9	***	***	*	*
Creosote	8001-58-9	*	***	***	***
Cresol	1319-77-3		***	***	***
Crystallisable acetic acid	64-19-7	***	***	**	*
Cutting oils Cyclohexane	/ 110-82-7		***	***	***
Cyclohexanol	108-93-0	***	***	***	***
Cyclohexanon	108-94-1	*	*		
Diacetone alcohol	/	***	***		*
Dibutyl ether Dibutyl phtalate	142-96-1 84-74-2	**	*	***	
Diehanolamine	111-42-2	***	***	***	***
Diesel oils	/		*	***	*
Diluted sulfphuric acid (battery)	/	***	***	***	***
Dioctylphtalate Dyes (hair dyes)	117-81-7	**	***	***	***
Ethyl acetate	141-78-6	~~~	*	*	*
Ethyl alcohol (or ethanol)	64-17-5	***	***	***	***
Ethylamine	75-04-7	*	*	***	*
Ethylaniline Ethylene dichloride	/ 107-08-2	*	***	***	*
Ethylene glycol	107-21-1	***	***	*	***
Fertilisers	/	***	***	***	***
Fish and shellfish	1	*	***	***	*
Fixing agents	1	***	***	***	***
Fluorides Formaldehyde	50-00-0	***	***	***	***
Fuel oil	/		*	***	*
Fuels	/		*	***	*
Furol (furfural or furaldehyde)	98-01-1	***	**		
Gas-oil Gasoline	/		*	***	*
Glycerin	56-81-5	***	**	***	*
Glyceropthalic paint	/		*	***	*
Glycols	107-21-1	***	***	***	***
Hair bleaching agents	/	***	***	***	***
Hair-curling products Hexane	/ 110-54-3	***	***	***	***
Household detergents	/	**	***	**	**
Hydraulic fluids (esters)	1	***	***	***	*
Hydraulic oils (petrol)	10025-10-0		*	***	*
Hydrobromic acid Hydrogen peraxide	10035-10-6	***	*	*	*
Isobutyl alcohol (Isobutanol)	78-83-1	***	***	***	***

**CHEMICAL** 

**RESISTANCE TABLE** 

	Π°CAS	Natural latex	Neoprene	Nitrile	PVC vinyl
Isobutyl ketone	/	***	***		
Kerosene	/		*	***	*
Lard oil Linseed oil			***	***	*
Lubricants oils	1		*	***	*
Magnesia	1309-48-4	***	***	***	***
Methyl acetate	79-20-9	*	***	*	*
Methyl alcohol (or methanol)	67-56-1	***	***	***	***
Methyl ethyl ketone Methyl isobutyl ketone		***	**		
Methyl salicylate	119-36-8	***	***	***	***
Methylamine	74-89-5	***	**	***	***
Methylaniline	100-61-8	*	*	***	***
Methylcyclopentane	96-37-7	_	*	***	*
Methylene chloride Methylformiate	75-09-2	*	*	*	*
Milk and dairy products	1	*	***	***	~
Mineral greases	i i		*	***	*
Mono ethanol amine	141-43-5	***	***	***	***
Naphta	/		*	***	*
Naphtalene N-butylamine	91-20-3 109-73-9	***	*	**	*
Nickel chloride	7718-54-9	***	***	***	***
Nitrate of ammonium	6484-52-2	***	***	***	***
Nitrate of potassium	7757-79-1	***	***	***	***
Nitrobenzene	98-95-3		*	*	
Nitrohydrochloric acid	/		**	*	*
Nitropropane Non-alcoholic beverages		***	**	*	***
Octyl alcohol	111-87-5	***	***	***	*
Oleic acid	112-80-1	*	***	***	*
Olive oil	/		***	***	*
Oxalic acid	144-62-7	***	***	***	***
Paraffin oil	1		*	***	*
Peanut oil		***	***	***	*
Perfumes and essences Petroleum ether	/	***	**	***	***
Petroleum products	1		*	**	*
Petroleum spirit	1		**	***	*
Phenyl chloride	108-90-7		*	*	
Phosphates of calcium	10103-46-5	***	***	***	***
Phosphoric acid	7664-38-2	***	***	***	***
Polyester resins Potash flakes	1	***	*	**	*
Potassium acetate	127-08-2	***	***	***	***
Potassium bicarbonate	298-14-6	***	***	***	***
Potassium carbonate	584-08-7	***	***	***	***
Potassium chloride	7447-40-7	***	***	***	***
Potassium cyanide Potassium manganate	151-50-8 7722-64-7	***	***	***	***
Potassium manganates	/////	***	***	***	***
Potassium sulphate	7778-80-5	***	***	***	***
Poultry	1	*	***	***	
Propylene dichloride	78-87-5			*	
Ouick lime Shampoos		***	***	***	***
Silicates	/	***	***	***	***
Slaked lime	1	***	***	***	***
Soda flakes	1	***	***	*	*
Sodium bicarbonate	144-55-8	***	***	***	***
Sodium bisulphite	7631-90-5	***	***	***	***
Sodium carbonate Sodium chloride	497-19-8 7647-14-5	***	***	***	***
Sodium chlorite	7681-52-9	***	***	***	***
Sodium nitrate	7631-99-4	***	***	***	***
Sodium phosphates	1	***	***	***	***
Sodium sulphate	7757-82-8	***	***	***	***
Soybean oil Stannic chloride	/		***	***	*
Stannic chlorue Stearic acid	57-11-4	*	***	***	***
Styrene	100-42-5		*	*	*
Sulphites, bisulphites, hyposulphites	/	***	***	***	***
Sulphuric ether (pharmacy)	1	*	***	***	*
Tartaric acid	/	***	***	***	***
Tetrachloroethylene	127-18-4		*	**	
THF = tetrahydrofurane Toluen	109-99-9 108-88-3	**	*	**	*
Tributyl phosphate	126-73-8	*	**	**	*
Trichlorethylene	79-01-6		*	*	
Tricresyl phosphate	1330-78-5	***	**	***	**
Trinitrobenzene	1		*	**	*
Trinitrotoluol	/		*	**	*
Triphenyl phosphate Turbine oils	115-86-6	*	***	***	*
Turnipseed oil	/		*	***	-
Turpentine	/		*	***	*
Vinegar and condiments	1	***	***	***	**
Washing powders	1	***	***	***	***
Water paint Weed killers	1	***	***	***	***
Wood turpentine		***	***	***	***
Xylene	/		*	**	
Xylophene	/		*	***	*
Zinc sulphate	7733-02-0	***	***	***	***

Not recommended Average \* Good \*\* Very good \*\*\*

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# HAND PROTECTION - BODY PROTECTION TECHNICAL INFORMATION

### FOOD Compatibility



# Regulation (EC) N° 1935/2004 of the European Parliament and of the Council of 27th October 2004 on materials and articles intended to come into contact with foodstuffs.

Materials and articles must be manufactured in compliance with good manufacturing practice so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities which could:

- Endanger human health ;
- Bring about an unacceptable change in the composition of the food or a deterioration in the organoleptic characteristics thereof.

### Food contact of plastic materials is governed by Regulation (EU) No 10/2011 and the related requirements.

Materials PVC/Vinyl or even Latex/Nitrile gloves (unless local legislation exists) are directly subject to these regulations.

They define:

- Positives lists of authorized constituents ;
- The purity criteria applicable to some of these constituents ;
- Special migration limits in foodstuffs for certain constituents ;
- Maximum residual quantities of some constituents in the material ;
- An overall migration limit in foods.
- A limit of metal content for plastic materials and objects.

# Annex III of Regulation (EU) 10/2011 provides the list of stimulants to be used for testing migration of constituents of plastic materials and articles intended to come into contact with foodstuffs:

- Aqueous foods (pH > 4.5): Simulants A, B and C.
- Acid food (pH ≤ 4.5): Simulant B ;
- Alcoholic foods(≤ 20%): Simulant C;
- Alcoholic foods (> 20%): Simulant D1.
- Fatty foods: Simulants D1 and D2.
- Foods containing free surface fats: Simulant D2.
- Dry foods: Stimulant E.

### **DISPOSABLE GLOVES**

Standard EN455 defines **the quality requirements** for non-reusable medical gloves. **1 - Detection of holes:** Airtightness test.

- 2 Physical properties: Verification of the size, thickness and strength of the glove.
- 3 Biological evaluation: Verification of the conformity of the materials.

### INTERNATIONAL MAINTENANCE CODE FOR ARTICLES

	TEXTILE No treatment
	Moderate treatment.
=	Very light treatment.
	WASHING
40	Maximum temperature 40°C. Normal mechanical treatment. Normal temperature rinsing. Normal spinning.
40	Maximum temperature 40°C. Reduced mechanical treatment. Rinse at gradually decreasing temperature. Reduced spinning.
Fund	Wash by hand. No machine washing. Maximum temperature 40°C. Treat with care.
区	Do not wash. Treat with care when wet.
	DRYING
$\odot$	Can be dried in rotating drum dryer. Normal program.
$\odot$	Can be dried in rotating drum dryer. Moderate, low temperature program.
Ø	Do not dry in rotating drum dryer.
	CHLORINATION
$\Delta$	Chlorination (chlorine bleach).
CI	Chlorination possible solely in cold, diluted solution.
$\mathbf{X}$	No chlorination.
	IRONING
••••	Iron at the maximum iron sole plate temperature of 200°C.
•••	Iron at the maximum iron sole plate temperature of 150°C.
	Iron at maximum iron sole plate temperature of 110°C. Steam treatment presents risks.
X	Do not iron. Steam treatment is forbidden.
	DRY-CLEANING
0	Dry cleaning. The circle stands for dny-cleaning for textile articles (Leather and fur articles are excluded). It contains information on the various dry cleaning treatments.

Dry-cleaning prohibited

### CHEMICAL PROTECTIVE CLOTHING

EN14126

EN13034

EN13982-1

TYPE 5

EN14605

TYPE 4

TYPE 3

**TYPE 6** 



### PROTECTION PROTECTIVE CLOTHING AGAINST INFECTIVE AGENTS

This standard specifies the requirements and test methods concerning reusable protective clothing for limited use providing protection against infective agents. Associated with standards for protective clothing against chemical products, the letter B is added after the garment type. Examples: TYPE 6-B / TYPE 5-B / TYPE 4-B / TYPE 3-B



### PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS

Requirements for chemical protection clothing offering limited performance against liquid chemical products (type 6 equipment), including clothing for partial body protection (Type PB [6]).

This standard sets out the minimum requirements for limited use and reusable limited performance chemical protective clothing. Limited use chemical protective clothing is intended for use in cases of a potential exposure to **light sprays**, liquid **aerosols** or low-pressure, **low-volume splashes**, against which a complete liquid permeation barrier (at the molecular level) is not required.



### PROTECTIVE CLOTHING FOR USE AGAINST SOLID PARTICLES

Performance requirements for protective clothing against chemical products offering full body protection against air-borne solid particulates (type 5 clothing). This standard sets out the minimum requirements for chemical protection clothing resisting penetration of solid particulates suspended in air (type 5). This clothing offers full body protection, including the torso, arms and legs, such as one or two-piece coveralls, with or without hood or face-shield, with or without foot protection.



### PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS

Requirements for chemical protection clothing with liquid-tight (**type 3**) or spraytight (**type 4**) connections, including items providing only partial body protection (**types PB [3] and PB [4]**). This standard sets out the minimum requirements for the following types of limited use and re-useable chemical protective clothing:

- Clothing protecting the full body with liquid-tight connections between the various clothing parts (**Type 3: liquid-tight clothing**);

 Clothing protecting the full body with spray-tight connections between the various clothing parts (Type 4: spray-tight clothing);

Note: These standards were formerly entitled EN1512 (Type 4) and EN1511 (Type 3).

STANDARD	TYPE Chemical	PROTECTION
EN13034	6	Against splashes
EN13982-1	5	Against dust (asbestos)
EN14605	4	Against mists
EN14605	3	Against sprays

EXAMPLES OF APPLICATIONS						
Applications	Risks	Level of protection				
Work / Maintenance	Fouling	Category I / Non PPE				
Industrial cleaning	Exposure to hazardous chemical substances and particles	Туре 6 Туре 5				
Asbestos abatement / removal (dust > 1 micron)	Contact with particles or fibres	Type 5				
Agriculture and horticulture (Handling of herbicides / pesticides / fungicides / fertilizers)	Contact with harmful elements	Туре 4				
Paint spraying (Solvents)	Contact with low-concentrate aerosols	Туре 4				
Paint spraying (Preparation / Mixing)	Contact with high concentrate aerosols	Туре 3				
Laboratories / Chemical Industries	Projection of chemical products	Туре 3				
Emergency / Rescue Personnel	Bacteriological contamination	Туре 4-В Туре 3-В				

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# BODY PROTECTION TECHNICAL INFORMATION

TESTS									
General	Table Constitutions	Level of protection							
performance	Tests & Specific performance	<b>1</b> a	1b	1c	2	3ª	<b>4</b> ª	5	<b>6</b> ª
	Internal pressure	Х	Х	Х	-	-	-	-	-
	Leak to interior	-	Χp	Х	Х	-	-	-	-
	Penetration by a jet of liquid	-	-	-	-	х	-	-	-
Performance requirements for the whole garment	Penetration by a spray	-	-	-	-	Х	Х	-	-
	Against solid particles	-	-	-	-	-	-	Х	-
	Penetration by a spray	-	-	-	-	-	-	-	Х
	Abrasion / Tearing / Perforation / Seams	Х	Х	Х	Х	Х	Х	Х	Х
	Resistance to tensile strength	Х	Х	Х	Х	Х	Х	-	Х
	Resistance to flame	Х	Х	Х	Х	Х	Х	Х	Х
Performance requirements	Resistance to cracking by bending	Х	Х	Х	Х	Х	Х	Х	-
for the constituent materials of the garment	Resistance to cracking by bending at -30°C	Х	Х	Х	Х	Х	Х	-	-
	Resistance to permeation	Х	Х	Х	Х	Х	Х	-	-
	Resistance to penetration by liquids	-	-	-	-	-	-	-	Х
	Impermeability to liquids (repulsion)	-	-	-	-	-	-	-	Х

a - When the protection equipment only protects certain parts of the body (torso, arms, legs), only the performance requirements for the constituent materials of the garment are required (type 6, 4 and 3).

b - Applicable for suits whose respiratory mask is separate and removable.

### **HEAT PROTECTIVE CLOTHING**



### PROTECTION USED IN WELDING AND ALLIED PROCESSES

This standard sets out the performance requirements for protective clothing for use by operators in welding and allied processes with comparable risks.

This type of protective clothing is intended to protect

the wearer against molten metal splash, short contact with flame and UV radiation. It is intended to be worn at ambient temperature, continuously for up to 8 hours.



3 / 501 /75 Indice: 1 / 2 or 3 Nb: Number of washes I: Industrial wash T0: Service temperature

### PROTECTION AGAINST HEAT AND FLAME

This standard sets out the performance requirements for limited flame spread materials and material assemblies used in protective clothing. Limited flame spread materials and material assemblies are used to make protective clothing in order to reduce the risks of flammability of the garment and the dangers it may cause. They are suitable for protection against accidental contact with small igniting flames, in conditions with no significant heat danger.

Class 1

protection against low risks during welding techniques and situations producing fewer projections and low radiant heat.

Class 2 protection against higher risks during welding techniques and situations producing more projections and a higher radiant heat.

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### TECHNICAL Protective Clothing

### GENERAL REQUIREMENTS

Reference standard, not for use alone, but only in association with another standard containing the protection performance requirements.

This standard specifies general performance requirements for ergonomics, innocuousness, size designation, durability, ageing, compatibility and marking of protective clothing and the information to be supplied by the manufacturer with the protective clothing.



EN ISO 13688

### PROTECTIVE CLOTHING TO DISSIPATE STATIC ELECTRICITY

This European Standard specifies requirements for materials and the design of protective electrostatic dissipation clothing used in conjunction with a grounded system in order to prevent incendiary discharges. WARNING: These requirements may be insufficient in oxygen enriched flammable environments. This standard is not applicable for protection against mains voltages.

The control of undesirable static electricity on the person is often necessary.

The electrostatic potential may, indeed, have serious consequences on the charged individual, because it can be high enough to cause dangerous sparks.

After a risk assessment, the wearing of protective electrical dissipation clothing may be necessary. The use of clothing certified according to EN1149-5 is then adapted.

The ATEX Directive 1999/92/EC, in its Annex II-A-2.3, requests that workers be equipped with work clothes made of materials that do not produce electrostatic discharges that can ignite explosive environments.

The electrostatic potential can also affect equipment sensitive to electric discharge. And antistatic clothing are often used on electronic manufacturing sites, assembling semiconductors for example. Finally, they are used on sites with controlled atmospheres such as automotive paint workshops, to avoid the emission of particles that may be deposited on the body paint.

The antistatic charge dissipation can be provided by a process limiting the build up of charge, or by adding carbon or metal wires. People wearing protective electrostatic charge dissipation clothing must always be grounded with a resistance of less than 10<sup>8</sup>Ω, for example, by wearing appropriate footwear such as the safety shoes stated in EN ISO 20345, or by other suitable means.



### PROTECTION FOR USERS OF HAND-HELD CHAINSAWS

This standard specifies the requirements to be used to assess the resistance of protective clothing to cutting by hand-held chainsaws. It is divided into several parts:

**EN381-5** Specifies the requirements for leg protectors.

**EN381-7** Specifies the requirements for protective gloves.

**EN381-9** Specifies the requirements for protective gaiters.

**EN381-11** Specifies the requirements for upper body protectors.

The cut tests are conducted using 4 chain speeds:

16 m/s	Class O
20 m/s	Class 1
24 m/s	Class 2
28 m/s	Class 3

The protective zone on leg protectors is coded using three letters A, B or C, corresponding to the coverage surface of the cut-proof material (Type A, Type B or Type C).

### Marking:





### PROTECTIVE CLOTHING AGAINST RADIOACTIVE CONTAMINATION

This standard specifies the requirements and test methods for non-ventilated protective clothing against radioactive contamination in the form of particles. Clothing of this type is designed only to protect the body, the arms and the legs of the wearer, but it may be used with accessories that protect other parts of the wearer's body (for example, boots, gloves, respiratory protective device - APR).

The garments are classified according to their nominal protection factor (ratio between the concentration of test particles in the ambient atmosphere and the concentration of test particles inside the garment), determined in relation to the total inward leakage (ratio between the concentrations of test particles inside the garment and inside the test chamber).

The classes are as follows:

CLASS	NOMINAL PROTECTION FACTOR
3	500
2	50
1	5

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# **BODY PROTECTION TECHNICAL INFORMATION**



### ► HIGH VISIBILITY CLOTHING

This standard specifies the requirements for protective clothing aiming to signal the presence of the wearer visually, so that he may be detected and seen in hazardous situations, in all conditions of daylight, and night under illumination of car headlights.

There are three classes of high-visibility clothing. Each class must have minimum surfaces of visible material constituting the garment; the higher the class, the more visible the garment:

	CLASS 3	CLASS 2	CLASS 1
Background material (Fluorescent)	0,80 m²	0,50 m²	0,14 m²
Retroreflective material (Bands)	0,20 m²	0,13 m²	0,10 m²

### Marking:

X: Class of high visibility surface (from 1 to 3)



Max. 25x

### EN ISO 20471

2: Class of the visibility surface (1 to 3) Max. 25x: Optional marking, number of maximum washes authorized for the model. On this example: 25 washes maximum (see indication of service temperature on the garment tag).

#### VISUAL ACCESSORIES EN13356 FOR NON PROFESSIONAL USE

This standard specifies optical performance requirements for accessories that are worn, attached to, or carried by individuals and designed for non-professional use. The visualization accessories conforming to this standard are intended to visually indicate the presence of the user when illuminated by vehicle headlights on unlit roads. This standard does not apply to clothing.

### **FOUL WEATHER PROTECTIVE CLOTHING**



### ▶ PROTECTIVE CLOTHING AGAINST COLD

This standard specifies the requirements and performance test methods for protective clothing against cold at temperatures lower than -5°C (cold store / extreme cold workers)

There are two types of garment:

EN342

Garments: covering part of the body, e.g. parka, jacket, coat. Suits: covering the whole body (trunk + legs), e.g. coveralls, parka & dungarees.

X (undergarment B/C/R): / cler of the garment

X: Class of air permeability, AP

X: Class of resistance to water penetration WP (Optional)

### PROTECTIVE CLOTHING AGAINST COOL ENVIRONMENTS

This standard specifies the requirements and performance test methods for arments (vests, jackets, coats, trousers) against cool environments. ents are for use in moderate low temperatures (-5°C and over) to nst local body cooling and are not only for outdoor use such as in the n industry, but may also be used for indoor activities, such as in the food processing industry.

These garments are not always necessarily made of air impermeable or watertight materials. Therefore, in this European standard, these requirements are optional.

X: Class of heat resistance, R<sub>rt</sub>

X: Class of air permeability, AP

EN14058

X: / \_\_\_\_ of the garment (Optional)

X: Class of resistance to water penetration WP (Optional)



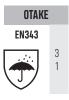


### PROTECTIVE CLOTHING AGAINST RAIN

This standard specifies the requirements and test methods applicable to the materials and seams of protective clothing against foul weather (for example precipitation in the form of rain or snow), fog and ground humidity.

TESTS								
	Code	EN343	EN342	EN14058				
Class of thermal resistance (in m².K/W)	R <sub>ct</sub>	-	-	Х				
Class of water vapour resistance (in (m².Pa)/W)	R <sub>et</sub>	Х	-	-				
Class of air permeability (in mm/s)	AP	-	Х	Х				
Resistance to water penetration (in Pa)	WP	Х	X (optional)	X (optional)				
Resultant effective thermal insulation (in m <sup>2</sup> .K/W) Measured on a moving manikin	/ <sub>cler</sub>	-	Х	Х				

X: Resistance to water penetration, Wp X: Water vapour resistance, R.





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### • THERMAL RESISTANCE (R<sub>ct</sub>) IN M<sup>2</sup>.K/W:

Measurement of the thermal insulation provided. Divided into 4 classes (from 1 to 4) from the least insulating to the most insulating. The higher the value, the greater the thermal insulation.

### • WATER VAPOUR RESISTANCE (R<sub>et</sub>) IN (M<sup>2</sup>.PA)/W:

Measures the evaporative resistance, i.e. the product's obstacle to the passage of water vapour, or the barrier it offers to evaporation of transpiration on the surface of the skin. The higher a product's water vapour resistance, the greater this product's barrier to the passage of water vapour. A breathing product has a low water vapour resistance.

Divided into 3 classes (from 1 to 3) from the least breathable to the most breathable.

#### • AIR PERMEABILITY (AP) IN mm/s:

Determines the complex's permeability to air. Divided into 3 classes (from 1 to 3) from the least airtight to the most airtight.

#### • RESISTANCE TO WATER PENETRATION (WP) IN PASCAL:

Measurement of the outer material and seams' resistance to water penetration under a water pressure of (980+/-50) Pa/min.

Divided into 3 levels (1 to 3) from the least impermeable to the most impermeable.

#### • RESULTANT EFFECTIVE THERMAL INSULATION:

Measured on moving dummy  $(/_{clar})$ .

The thermal insulation coefficient, expressed in m<sup>2</sup>.K/W, is used to determine the optimum usage temperature of the garment in relation to the individual's activity and his exposure time.

Thermal insulation is measured with undergarments of type:

- (B) for ensembles (Undershirt with long sleeves, long underpants, socks, bootee + thermojacket, thermopants, knitted gloves, balaclava)

- (R) for garments (Undershirt with long sleeves, long underpants, socks, bootees, jacket, trousers, shirt, knitted gloves, balaclava)

- (C) provided by the manufacturer

	AMBIENT TEMPERATURE CONDITIONS FOR HEAT BALANCE FOR DIFFERENT LEVELS OF ACTIVITY AND EXPOSURE DURATIONS									
	ACTIVITY									
Standard applicable	Insulation m².K/W				ving lightly I/m <sup>2</sup>	Wearer moving medium 170 W/m <sup>2</sup>				
	/ <sub>cler</sub>	8h	1h	8h	1h	8h	1h			
EN14058	0,170	19°C	11°C	11°C	2°C	0°C	-9°C			
EN14058	0,230	15°C	5°C	5°C	-5°C	-8°C	-19°C			
EN342	0,310	11°C	-2°C	-1°C	-15°C	-19°C	-32°C			
EN342	0,390	7°C	-10°C	-8°C	-25°C	-28°C	-45°C			
EN342	0,470	3°C	-17°C	-15°C	-35°C	-38°C	-58°C			
EN342	0,540	-3°C	-25°C	-22°C	-44°C	-49°C	-70°C			
EN342	0,620	-7°C	-32°C	-29°C	-54°C	-60°C	-83°C			

### EN14404 🕨 KNEE PROTECTION

This European Standard provides the requirements and test methods for protective knee devices used by people that have kneel to carry out their work. This standard does not apply to the knee protection that are medical devices and are designed for sport.

	KNEE PROTECTION				
Туре 1	Knee protection independent of other product and attached around the leg				
Type 2	Plastic foam or other padding inserted in the pockets of trousers or permanently attached to the trousers				
Туре З	Devices that are not attached to the body but implemented during the movement of the user. They can be provided for each knee or both knees together				
Type 4	Protection of one or both knees, part of devices with additional functions, such as helping to stand or kneel. The knees protection can be worn on the body or independently				

### **SAFETY SHOES-BOOTS**

### **STANDARDS**

### EN ISO 20344

This standard defines the test methods for safety footwear, protective footwear, and occupational shoes.

It may be used only in conjunction with standards EN ISO 20345 and EN ISO 20347, which specify the requirements for the shoes as a function of specific levels of risk involved.

# EN ISO 20345 SPECIFICATION FOR SAFETY FOOTWEAR FOR THE WORKPLACE.

In reference to standard EN ISO 20344, this European standard defines the basic and the additional (optional) requirements for safety footwear for the workplace, marked «S». The safety shoe is equipped with safety toe caps designed to withstand a maximum impact of 200 joules and crushing up to 15 kN.

#### EN ISO 20347 ▷ SPECIFICATION FOR OCCUPATIONAL SHOES MARKED «O».

These shoes are different from safety/protective footwear in that they have no protective toe cap for impact and crushing.

### EN ISO 61340-4-3

This standard specifies the requirements and tests for electrostatic shoes with specific applications. It describes the test methods used to determine the electrical resistance of shoes used to control the electrostatic potential of the user's workstation.

### EN ISO 20349-1 En ISO 20349-2

This standard specifies the requirements and tests for protective shoes against heat risks and molten metal splashes as in foundries or welding.



### THE PARTS OF A SHOE

	SIZE CORRESPONDANCE TABLE													
EU	35	36	37	38	39	40	41	42	43	44	45	46	47	48
UK	2	3	4	5	6	6.5	7	8	9	10	10.5	11	12	13
US	3	4	5	6	7	7.5	8	9	10	11	11.5	12	13	14
cm	23.1	23.7	24.4	25.1	25.7	26.4	27.1	27.8	28.4	29.1	29.7	30.3	31	31.6
mm	231	237	244	251	257	264	271	278	284	291	297	303	310	316

• SB OR S1 TO S5 OR SBH (SAFETY FOOTWEAR) • OB OR 01 TO 05 OR OBH (OCCUPATIONAL SHOES)					
CLASS 1 or 2	EN ISO 20345	EN ISO 20347			
ALL MATERIALS	SB: basic properties	<b>OB</b> : basic properties			
<b>CLASS 1</b> Leather shoes and other materials, except rubber or polymer shoes	St: basic properties plus: - closed back - anti-static - energy absorbing heel - outsole resistance against hydrocarbons	OT: basic properties plus: - closed back - hydrocarbon-resistant sole - anti-static - energy absorbing heel			
	<b>S2</b> : the same as S1 plus: - waterproof	<b>02</b> : the same as 01 plus: - waterproof			
	<b>S3</b> : the same as S2 plus: - puncture resistant sole - studded sole	03: the same as 02 plus: - puncture resistant sole - studded sole			
<b>CLASS 2</b> All rubber shoes (fully cured*) or all polymer (fully moulded)	<b>S4</b> ; basic properties plus: - closed back - anti-static - energy absorbing heel - outsole resistance against hydrocarbons	<b>04</b> : basic properties plus: - anti-static - energy absorbing heel			
	<b>S5</b> : the same as S4 plus: - puncture resistant sole - studded sole	<b>05</b> : the same as O4 plus: - puncture resistant sole - studded sole			
<b>HYBRID SHOES</b> Rubber foot (fully cured) or all polymer (fully moulded) / Top leather upper and other materials	SBH: properties specific to hybrid safety shoes	OBH: properties specific to hybrid work shoes			

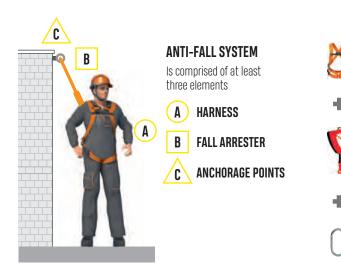
	SYMBOLS FOR INDIVIDUAL SPECIFICATIONS En ISO 20345	
	Puncture resistant sole	Р
	Electrical properties:	
	Conductive shoe	С
	Antistatic shoe	А
	Insulating shoe	See EN50321
Whole shoe	Resistance to aggressive environments:	
WHOLE SHOE	Heat-insulated sole	HI
	Sole insulated against cold	CI
	Energy absorbing heel	E
	Water-resistant of the whole shoe (waterproof shoes in leather and other materials, class 1)	WR
	Metatarsal impact protection	М
	Ankle protection	AN
	Cut-resistant upper	CR
Upper	Resistance of the rod penetration and water absorption (shoes in leather and other materials, class 1)	WRU
	Contact-heat resistant outsole	HRO
Outsole	Oil-resistant outsole	FO
	lsolation of the sole against heat. Sandbox test 150°C, 30 minutes of exposure (Hl-1)	HI

SYMBOLS FOR INDIVIDUAL SPECIFICATIONS En ISO 20349-1 • En ISO 20349-2	
Floor types Symbols	Symbols
Resistance to molten metal splashes, with use of aluminum as molten metal during the test (EN ISO 20349-1)	AL
Resistance to molten metal splashes, with use of cast-iron as molten metal during the test (EN ISO 20349-1).	FE
250°C sandbox test, 40 minutes of exposure (HI-3). (EN ISO 20349-1)	HI
WG indicates that the footwear complies with the requirements defined for welding footwear. (EN ISO 20349-2)	WG

RESISTANCE TO SLIPPING				
Floor types	Symbols			
Hard industrial floors, for indoor use (such as food industry tiled flooring)	SRA			
Hard industrial type floors for indoor or outdoor uses (paint or resin type flooring in industry)	SRB			
All types of hard floors for multiple uses indoors or outdoors	SRC			

### **PERFECT SAFETY**

Fall arrest equipment includes different products which have to be adapted for each risk to ensure the necessary protection.



### THE HARMONIZED EUROPEAN STANDARDS

All protective equipment against falls from a height are submit to European standards. You will find, below, a summed up presentation of every standard.

### GENERAL Standards

### EN363 🕨 FALL ARREST EQUIPMENT

Set of personal protective equipment against falls from height, linked to one another and intended to stop a fall. A fall arrest equipment must contain at least a full body harness and a fall arrest equipment.

### EN364 🕨 TEST METHOD

Describes the different test methods of the various PPE against falls from height, as well as the test equipment.

# EN365 EQUIREMENTS FOR THE INSTRUCTIONS FOR USE AND THE MARKING

Description of the marking that must figure on the PPE against falls from height and of the information which must appear on the instructions for use. Instructions for periodic inspections shall include inter alia:

- A recommendation for the frequency of periodic inspections, taking into account factors such as regulation, the type of equipment, frequency of use, and environmental conditions. This recommendation shall include a clause stating that

the periodic inspection should be conducted at least once every twelve months; - A warning to emphasise that periodic inspections should be only carried out by a competent person in strict compliance with the manufacturer periodic inspection procedures.

### **VISUAL INSPECTION FOR:**

Harnesses, belts, lanyards, ropes, energy absorbers, self retractable devices that canno't be dismantled (e.g. AN102), connectors, our kit components (except ELARA270), temporary anchors (tripod, LV201 ...)

### **MECHANICAL INSPECTION FOR:**

Self retractable devices that can be dismantled, rescue equipment (e.g. TC013)

### SPECIFIC Standards

### EN361 ► FULL BODY HARNESS

Body securing device intended to stop falls. The full body harness can be made of straps, buckles and other elements; set and adjusted in a right way on the body of an individual to secure him during a fall and afterwards.

### EN353-1 🌔 MOBILE FALL ARRESTER ON RIGID ANCHORAGE LINE

Equipment consisting of a mobile fall arrester with self-locking, integral with its rigid anchorage line (rail, cable...). An energy reducer can be built-in on the equipment.

# EN353-2 MOBILE FALL ARRESTER ON FLEXIBLE ANCHORAGE LINE

Equipment consisting of a mobile fall arrester with self-locking, integral with its flexible anchorage line (rope, cable...). An energy reducer (absorber) can be built-in in the equipment.

### EN355 🕨 ENERGY ABSORBER

Component of a fall arrest equipment, which guarantees the stop of a fall from a height in safety by reducing the impact of the shock.

**WARNING:** If we associate a lanyard energy absorber, the total length of the entire device must not exceed 2 m.

### EN360 🌾 SELF-RETRACTABLE FALL

Fall arrester with self-locking device and a self-retractable system for the lanyard. An energy reducer (absorber) can be built-in in the equipment.

### EN362 🕨 CONNECTOR

Connection element or equipment component. A connector can be karabiner or a snap hook.

- **Class A:** Anchorage connector, automatic lock used as the component and designed to be connected directly to a specific type of anchorage.
- Class B: Primary connector with automatic lock used as the component.
- Class M: Multi-purpose connector, primary or quick opening, used as a component, which can be loaded along its major axis or minor axis.
- Class 0: Quick opening connector used in long-term or permanent applications, screw lock. When completely screwed this part is a supporting part of the connector.
- **Class T:** Manufactured end connector, automatic lock, designed as part of a subsystem for attachment so that the load is carried in a predetermined direction.

### EN354 🕨 LANYARDS

Connection elements or equipment component. A lanyard can be in rope made of synthetic fibres, in metallic rope, in strap or in chain.

**CAUTION:** A lanyard without energy absorber must not be used as a fall arrest equipment.

### EN358 WORK POSITIONING SYSTEM

A work positioning system consists of components (work positioning belt and lanyard) linked to one another to form a complete equipment.

### EN813 SEAT HARNESSES

### EN1891 SHEATHED BRAIDED ROPE WITH A LOW COEFFICIENT OF ELONGATION (STATIC ROPES)

### EN12841 🌔 ROPE ACCESS SYSTEM

A rope device for work positioning. There are several types of device:

- Type A: Rope adjuster device for safety support that accompanies the user during his changes in position and/or to adjust the safety support length and which automatically locks on the safety support under a static or dynamic load action.
- Type B: Ascent device for work support, manually operated rope adjustment device which, when attached to a safety support, locks under the action of a load in one direction and slides freely in the opposite direction. A type B device must be used in conjunction with a type A device connected to a separate safety support.
- Type C: Descending device for work support, manually operated rope adjustment device with friction which allows the user to perform a controlled downward movement and to stop, by releasing, anywhere on the safety support. A type C device must be used in conjunction with a type A device connected to a separate safety support.

### EN1496 🕨 RESCUE EQUIPMENT

Rescue lifting devices. There are several device classes:

- Class A:Component or subset of a rescue equipment for the lifting of a person<br/>with the help of a rescuer, or on its own from a low point to a high point.Class B:Analogue device of class A device, but with an additional function of
  - manual control for descent to lower a person over a limited distance of 2 m.

### EN567 EQUIPMENT FOR MOUNTAINEERING AND CLIMBING

Safety requirements and test methods for blockers.

### EN12275 MOUNTAINEERING AND CLIMBING EQUIPMENT

Safety requirements and test methods for connectors.

Туре В:	Primary connector with automatic lock with enough strength to be used anywhere on a safety system.
Туре Н:	HMS self-closing connector, usually pear-shaped, used to link a mountaineer to a Via Ferrata anchoring system.
Туре К:	Via Ferrata self-closing connector, used primarily for dynamic belaying, HMS type.
Type D:	Directional connector or combination of one or more connectors with automatic lock and straps, used to ensure that the load is carried in a predetermined direction.
Туре А:	Special anchorage automatic lock connector only used to be directly connected to a special type of anchorage.
Type Q (Quicklink):	Connector with screw lock. When completely screwed this part is a supporting part of the connector.

### EN12278 MOUNTAINEERING AND CLIMBING Equipment

Safety requirements and test methods for pulleys.

### EN341 >> PPE AGAINST FALLS FROM HEIGHT

Descending devices, classified according to the following data

- Class A: Descent energy Wup to 7.5 x 10<sup>6</sup> J
- Class B: Descent energy W up to 1.5 x 10<sup>6</sup> J
- Class C: Descent energy *W* up to 0.5 x 10<sup>6</sup> J
- Class D: For a single descent. The descent energy depends on the maximum descent height and the maximum nominal load.

### EN795 2012 ▷ ANCHORAGE DEVICES

Element to which a personal protective equipment can be fastened.

Type A - NON PPE:	Anchor device with one or more stationary anchor points with the need of a structural anchor.
Type B:	Anchor device with one or more stationary anchor points without the need of a structural anchor.
Type C - NON PPE:	Anchor device employing a flexible anchor line with maximum deviation of 15°.
Type D - NON PPE:	Anchor device employing a rigid anchor line with maximum deviation of 15°.
Туре Е:	Anchor device for use on surfaces with a maximum slope of $5^\circ.$

### OTHER Standards

EN1498	►	RESCUE STRAP		
Directive 2006/42/CE	⊳	FOR THE MACHINES OR EQUIPMENTS With Mobile Function.		
EN13463-1		NON-ELECTRICAL EQUIPMENT FOR Potentially explosive Atmospheres		
Basic method and requirements (risk analysis).				

### CEN/TS 16415

It is not a standard but a recommendation to test the anchors used by 2 or more persons. This technical specification was approved by CEN (European Committee for Standardisation) on July 30, 2012 for a provisional application and allows the use of an anchor by several persons simultaneously.

### EN13463-5

### NON-ELECTRICAL EQUIPMENT FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

Protection constructional safety "c" regarding the main mechanical devices: joints, bearings, gears, belts, clutch chains, brakes, coupling devices, conveyor belts. It sets out the requirements to be respected for the design and maintenance instructions.

It sets out the requirements and tests to be conducted according to the type of component.

### DIRECTIVE 93/42/EEC EU REGULATION 2017/745

## FOR THE MEDICAL DEVICES OR ACCESSORIES.

### EN60529:1991 +A1:2000 + A2:2013

**The protection index (IP)** Classifies the level of protection offered by a material from solid and liquid intrusion. The index format is IPxx where the 1<sup>st</sup> digit indicates the protection from dust, the 2<sup>nd</sup> digit the protection from water intrusion.



# **GLOSSARY**

### ABRASION

Abrasion means wear through the action of friction. For the mechanical standard EN388 for gloves, EN343 for clothing and EN ISO20344 for shoes, the test consists of knowing when the product will deteriorate. The level is thus used to provide an indication of resistance and longevity.

A

### ABS

Acrylonitrile Butadiene Styrene (ABS) is a thermoplastic used by the industry for rigid, light and molded products. This material is used for the construction of the hull of hard hats and for the casing of self-retracting fall arresters

### ACCOMMODATIVE (REFLEX)

The cristallin acts as a lens enabling focusing in distance thanks to a muscle. Presbyopia (near-sightedness) is caused when it does not work properly. The accomodative reflex ensures clear vision.

### ACETATE

A fibre obtained by the action of artificial resins on cellulose and with: low weight, excellent optical properties, heat stability, good resistance to most chemical products. It does have some disadvantages however: low resistance to abrasion and scratching, risk of ignition near a heat source greater than 100°C.

### ACRYLIC

Synthetic fibre often resembling wool: Very high elasticity (so does not crease) - Very lightweight - Heat insulation equal to wool - Very high resistance to abrasion and traction. It is thermoplastic, has low absorbent power and dries very quickly.

### ACTIVATED CARBON

Activated carbon, or absorbent carbon or medicinal carbon, is carbon which has been treated by pyrolysis to increase its absorbency. The basic material used is often coconut, but it can be wood, bone or some other carbon.

A grain of activated carbon has a network of pores and channels similar in dimension to molecules. Activated carbon creates a chemical principle enabling toxic gas / vapour molecules to be captured.

### **AEROFRESH CONTROL**

System developed by Delta Plus, used to ventilate the shoe at the instep and ankle by means of an air vent.

### AEROSOLS

In chemistry, an aerosol is a set of solid or liquid particles, in suspension in a gaseous medium. An aerosol is a suspension of very fine particle (colloidal size) in a gas (risk of contamination of the air ways).

A cloud is an example of an aerosol. Other examples are mist, smoke or the cloud of dust given off when you shake out a rug.

### **AEROSOLS AND AQUEOUS FOGS**

Small droplets produced during pulverization.

### ALUMINISED (LINING)

The DELTALU aluminised lining combines heat insulation performance with lightness ; polyester wad on aluminium foil batting (perforated). It is a real barrier inside garments protecting against the cold and the wind.

### **ANCHOR LINE**

Element on which a sliding fall arrester moves. The anchor line can be a rope, a cable or a rail.

### **ANCHORAGE POINT**

Element to which a fall arrest system can be connected.

### ANTI-MIST (AB)

Surface treatment for lenses realized by dip coating the lens to prevent the formation of mist. This treatment is incompatible with mirror treatment of the lens itself.

### ANTI-SCRATCH (AR)

Surface treatment of lenses to prevent superficial scratches. This treatment is obtained by dipping the lens in a «silicone» based solvent. It is colourless on the lense and does not alter vision.

### ANTISTATIC

Property of a product, which prevents or limit the formation of static electricity. It is often requested in industrial environments for the risks of electrical discharge. Antistatic protective clothing are mainly used in explosive risk environments such as: chemical plants, refineries, weapons factories, mines.

They are also widely used to protect materials sensitive to electrical discharge such as on electronics manufacturing or semi-conductor assembly sites. Finally, they are used in controlled-atmosphere sites such as automobile paint workshops, the aim being to prevent the emission of particles which may be deposited on bodywork paint.

### APV

Assumed Protection Value: complete and precise method for mesuring the hearing protector attenuation

- Attenuation per frequency (63Hz, 125Hz, 250Hz, 500Hz, 1000Hz, 2000Hz, 4000Hz & 8000Hz).
- Mean Attentuation: mean attentuation every 16 people tested.
- Standard Deviation: statistical presentation of the results.
- Assumed Protection: minimum attentuation at each Frequency level.
- It is computed by subtracting the standard deviation from the mean attenuation for each considered frequency.

### APF

Assigned Protection Factor.

Formula used to define the level of protection achieved in the workplace by 95% of operators trained in the wearing of respiratory protective devices or RPD and properly using after control a well maintained and adjusted device.Maximal concentration allowed corresponds to: NPF x OEL.

### AQL

Initials which mean «Average Quality Level». The standard ISO N° ISO2859 determines sampling for controls batch by batch, the AQL thus gives the maximum number of gloves with defects on 100.

# **GLOSSARY**

### ARAMIDES

Thermostable fibres used mainly in heat-proof applications. There are two types: para-aramides such as Kevlar® (anti-cut & resistant to flame and heat) and meta-aramides such as Nomex<sup>®</sup> (antistatic & resistant to flame and heat).

### ARCH SUPPORT SYSTEM

This is an anatomical piece which provides rigidity to the instep and gives greater stability to the foot.

### ARMBAND

Armbands are pieces of fabric worn around the arm. Fluorescent armbands are accessories, used for greater visibility. Attention these are not PPE.

### ASSEMBLY

Assembly is the stage which consists of assembling the shoe upper on the form with the insole. Manufacturing occurs when this is assembled to the various midsoles and outsoles.

### ATTACHMENT

(DORSAL) Connection point of a fall arrester on a harness.

(STERNAL) Connection point of a fall arrester on a harness.

(LATERAL) Connection point of a work restraint system or work positionning. (VENTRAL) Connection point of a work restraint system or work positionning.

### BACK PAD

Element of a harness used to cross the straps at the back and position the D-ring at the correct height.

### **BIAS (FABRIC ON THE)**

It is the use of a fabric part in its transversality (angle 45°) in order to obtain a flexible and deformable part. Examples of applications: strips or ribbons to be adapted to rounded forms (edge of a cuff, inside belt of trousers, etc.).

### BLOUSON

A blouson is a short garment which only covers the torso and hugs the waist. A long jacket is an alternative between a blouson and a parka.

### BLUE (LIGHT)

Harmful light emitted between 380 and more than 500 nanometres. Examples: intense sunlight, light used for the sedimentation of ceramics in dentistry, etc.

### BRUSHED

Fabric on which one or both sides have a furry aspect obtained by the brushing operation.

The operation consists of passing the fabric over a rotating drum fitted with metal teasels. This treatment gives the article a soft, thick feel, making it warmer and bulkier, but removes toughness.

### BUMP CAP

Bump cap and anti-scalp (EN812 standard). It is a PPE widely used in industry, especially for indoor use to protect the skull against shock contact with hard surfaces that could cause minor injuries.

It can not replace the helmet, in case it is required to wear a helmet with EN397 standard.

### **BUMPER CAP**

Protective toecap designed to protect against premature wear on the front of the sole.

### BURSITIS

Bursitis is an occupational illness of the knee, often occuring in tile layers, welders, floor covering layers, etc...

It comes in form of a gradual and slow increase in the volume of a bursa due to repeated microtraumas.

### **BUTT (LEATHER)**

Part corresponding to the croup of the animal at the bottom of the skin (grain).

C

### CANVAS (WEAVE)

The plain weave, is the basic fabric weave, and is characterised by inversed and alternating arrangement of the warp yarns on the weft yarns. There is no difference between the right and wrong sides of the fabric. This weave is particularly resistant to abrasion and very easy to waterproof.

### CARBON (FIBRE)

The carbon fibre is used in materials for its anti-static properties.

### **CARROUSEL (INJECTION)**

It's a machine with several injection stations (12 18 24 30 36) used to make soles.

### **CEMENTED (ASSEMBLY)**

The most widely used manufacturing process for shoes in general: it consists of gluing the sole to the insole.

### CEMENTED (SEAM)

Assembly procedure for seams by hot gluing to guarantee the sealing of seams for coated materials.

### **CHEST STRAP**

Strap used in the design of a harness with the role of maintaining the position of the harness straps on the shoulders in order to prevent any risk of losing the harness in the event of a fall. The chest strap is not obligatory on a harness.

### **CHIN STRAP**

Element used to prevent a safety helmet from falling. It may be simple or with a chin-cup, with two or four fastening points used for work at height.



### CHLORINATED (GLOVE)

A washing process for the latex glove, washed in chlorinated water to produce unpowdered gloves. The advantages of unpowdered glove is: it is easier to put the glove on (a velvety contact), improves comfort and reduces the allergenic effect of the natural latex proteins carried by the powder.

### CLEARANCE

The clearance is the height between the foot of a person equiped with a fall arrest system and the nearest obstacle.

### CLOGGING

Phenomenon of dust filtre saturation. As respiratory protection is provided by a mechanical barrier (interlacing of fibres and electromagnetic reaction), when the filter is saturated, clogging occurs; the user feels difficulty in breathing.

### CLOSING

This is the step during which the various parts of the upper, collar, vamp, quarters, gussets are assembled.

### COATING

Coating is the operation by which the surface of a textile or leather is coated with a layer of chemical product with the aim of giving it properties of chemical resistance, or to enhance its mechanical resistance. They are mainly found in the form of polyvinyl chloride (PVC), polyurethane (PU), and natural (Latex) or synthetic (Nitrile, Neopren) elastomer. There are many applications, from tarpaulins to imitation leather including proofing of protective clothing.

### CONCENTRATION

Quantities of chemical products in the air breathed by a worker at his workstation, and which may adversely affect his health. Hence the need to have concentration limits below which the risks of intoxication are low or non-existant (TLV/STEL).

### **CONFINED SPACE**

A confined space is characterized by a volume/ dimension ratio such as the natural exchange of indoor air with outdoor air being reduced and able to cause asphyxiation, intoxication, fire or explosion. In these areas, the risks are increased by various gas or smoke fumes. Examples: wells, tanks, sewers, ditches, accessible collectors, valve chambers, tanks...

### CONNECTOR

Connecting element. A connector can be a carabiner or a hook.

### COTTON

Natural textile fibre made of silky filaments surrounding the cotton seed: it is comprised of about 94% cellulose. Comfort, easy cleaning and good absorbency are its main properties.

### CUFF

15 cm gauntlet found on welding gloves to protect wrist and forearm against molten metal splash.

### DECIBELS

Acoustic pressure, in other words the intensity or amplitude of sounds and noises, expressed in decibels (dB), and determines the danger to humans. The safety level has been fixed at 85 dB: above this, pain occurs, and injuries appear.

D

Decibels are usually measured using a sound meter which converts the sound signal into an electric current.

### DEFLECTOR

This is the role played by the helmet because of its rounded shape, it deflects the trajectory of a moving object, without stopping it suddenly, preventing a violent impact.

### DERMIS

The skin of the animal, comprised of two layers: the grain (external part of the dermis) and the flesh split (internal part of the dermis). Using the tanning process, the dermis is transformed into leather.

### DESCENDER

A descent / rescue device for lowering Vertically at a limited speed from a raised to a lower point. For use for one or more people.

#### DESIGNER

Person in charge of creating the shoe design integrating all the technical design elements.

### **DIELECTRIC (harnesses and absorbers)**

Dielectric harness and absorber, non-conductive renderings. Insulated thanks to the plastic coating of all the metal buckles.

### DIOPTER

Unit of power of optical systems used to determine the measurement of refraction, i.e. the ability of a medium or an object to deflect light rays. Unit of power equal to the inverse of the focal distance, expressed in metres. The focal distance is the distance between the lens or the refracting medium, and the point at which these rays converge (where they meet). The human visual system is 60 diopters (40 for the cornea and 20 for the cristallin).

### **DIPPED (GLOVE)**

Glove manufacturing process by dipping the form of a ceramic hand in baths of various compositions depending on the material used. The next step is firing in ovens (vulcanisation).



# **GLOSSARY**

### **DIRECTIVE (ATEX)**

This European regulation, which aims to improve the health and safety of workers at risk from explosive environments, is the result of the application of 2 directives:

• Directive 1999/92/EC for the protection of workers potentially at risk from explosive environments.

• Directive EU 2014/34 for machines intended for use in explosive environments.

PPE are not governed by these two directives, they are even explicitly excluded from the Directive EU 2014/34 (Chapter I, Section 4 1,2,d). They may be used in ATEX regulated zones as part of an overall explosion risk prevention system.

The EU 2016/425 regulation for PPE takes into account the risks of explosion in Annex II, paragraph 2.6. : "PPE for use in explosive environments.

PPE for use in explosive environments must be designed and manufactured in such a way that it cannot be the seat of an electric or electrostatic arc or result from an impact, capable of igniting an explosive mixture."

### DMF

Dimethylformamide N or N-dimethylformamide is a common solvent used in organic chemistry. DMF may be a carcinogenic substance, although the EPA (Environmental Protection Agency) does not consider it a cancer risk. The new innovative manufacturing process, also called PU Water, is 100% based on water. No solvents, such as DMF, are used, strengthening innocuousness.

### DOLOMIA

Dolomia is a sedimentary carbonate rock comprised of at least 50% dolomite. It is a double calcium and magnesium carbonate, which crystallizes into lozenge-shaped prisms (rhombohedrons).Dolomia is a sedimentary rock comprised mainly of the mineral dolomite (between 90 and 100%) and calcite, which do not have the same density (dolomite: 2.87; calcite: 2.71), playing a fundamental role in rock erosion.

The Dolomia test, conducted using Dolomia dust, is an optional test for filtering face pieces (EN149:2001 A1:2009) guaranteeing longer lasting performances of resistance to penetration.

### **DRILEX**®

Drilex<sup>®</sup> is a technical lining found in top of the range sports shoes. This lining is comprised of 2 fibres and enables absorption of perspiration and evacuation of humidity to the outside (antibacterial and anti-odour).

### **DUAL GRIP**

Name of an outsole offering a grip system suited to smooth or friable surfaces, with a large contact tread pattern, and central channels to evacuate liquids.

### DUAL-DENSITY (SOLE)

Dual-density means the sole is made of 2 superimposed parts; the underpart in contact with the ground is more rigid whereas the upper part is more flexible and shock absorbent.

### DUNGAREE

Dungaree are work garments comprised of trousers and a bib on the chest with shoulder straps. More commonly known as dungarees.

### DUSTS

Solid particles suspended in the air.

### EAR DEFENDER

Element of ear defenders (with the headband and the foam) which provides the sound attenuating effect.

F

### EARPLUGS

Disposable or reusable ear defenders (EN352-2): inserted in the ear canal to plug the conduit. Usually made of polyurethane or PVC, they can also come with a cord, a headband and a detectable metal insert (for use in the food processing industry).

### **ECO-DESIGNED**

Delta Plus develops eco-designed products whose environmental impacts are reduced to a minimum. Thus, throughout the lifespan of the product, the use of energy is minimized, the use of raw materials such as organic cotton and reduced packaging are given priority.

### EDGED (SEAM)

Seam consisting of covering another seam with a band of fabric compatible with that of the garment to provide better sealing.

### ELASTANE

Extensible fibre made of synthetic elastomer yarns. Elastane is always mixed with other fibres to give the fabric its properties: suppleness, elasticity and crease-proofing.

### ELECTRIC ARC

An electric arc is a visible electric current in a nonconductive media (gas, air, vacuum...).

The arc is created when the non-conductive material ionizes, which occurs more easily when conducting surfaces are nearby. The position of an electric arc is stable: once it has found the shortest path, it remains there (minimum energy principle). The whole difficulty for arc welding is therefore to master the arc using a continuous movement so that it keeps the desired form despite the fact that the emitting surface (or more rarely the receiving surface) is sometimes an acute angle.

Electrical arc welding produces a huge quantity of localized heat generating the fusion of materials, making strong joins that remain after cooling.

### ELECTRIC FLASHOVER

Electric flashovers are electrical burns without the current passing through the body. In low voltage, following an electric arc, the skin injuries are superficial and mainly affect the hands and face.

Protection is provided by the polycarbonate of a thickness >1.4mm. The best protection is provided by a face shield.

### **ENERGY ABSORBER**

Fall arrester composed of a lanyard with an energy dissipating device, which guarantees to stop a fall from height safely under normal conditions of use.

### **ENERGY DISSIPATOR**

Component of a fall arrester designed to dissipate the kinetic energy accumulated during the fall.



### ERGONOMICS

Studies and research into the methodical organisation of work and the arrangement of protective equipment according to the anatomical possibilities of people.

### ESD

ELECTROSTATIC DISCHARGE, electrostatic discharge.

Any contact and any physical separation of solid materials may generate electrostatic charge. A person, or a garment worn by the person, may be electrically charged. Where appropriate, the ESD can cause damage, if the charged person or object comes into contact with an ESD sensitive device (microchips, semiconductors, printed circuit boards...).

EN 61340-5-1 (Protection of electronic devices against electrostatic phenomena) defines the general requirements of the areas protected against ESD, EPA (ESD Protected Areas).

To be admitted into an EPA area, depending on the configuration of the workstation, clothing and footwear must be subjected to specific electrical charge dissipation tests determined by European and American standards. Based on the results of these tests, the product will have the special ESD marking. Other PPE (gloves, head protection and fall arrest system) are not mentioned in this standard.

### FABRIC

Any material obtained by interlacing of the warp and weft yarns, and made on a loom or weaving machine. Fabric with a plain weave structure is usually called plain weave.

F

### **FALL ARREST HARNESS**

Body harness system designed to stop falls, a harness is one element in a fall arrest system. It should be designed to hold the individual during and after the fall with an angle of 50° from the vertical.

### FALL ARREST SYSTEM

Protective equipment against falls from height or fall-arrest systems are comprised of 3 elements:

- a body holding system designed to stop falls (fall arrest harness).
- a linking sub-system designed to stop a fall from height (self-retracting fallarrester, sliding fall-arrester or energy absorbing lanyard).
- a safe anchorage point.

### **FALL INDICATOR**

Mechanical and visual device that allow to identify if a fall arrester suffered a drop impact.

### **FILTERING MEDIA**

Type of respiratory protection device used either in positive pressure (assisted ventilation) or in negative pressure (free ventilation).

### FINISH

Finishes are treatments used on some fabrics or yarns, to give them special properties, such as flame proofing, antistatic, water repellent, etc.

### **FLAME PROOFING**

Treatment of textile materials with non flammable substances to reduce the risks of fire or slow flame spread.

### FLANNEL

Lightly brushed fabric, soft and fluffy to the touch, originally made of wool.

### FLAP

See valve.

### FLASH

Surface treatment of a lens giving it a mirrorer aspect. The mirror effect on lens reflects the intensity of the light and heat to reduce eye strain during exposure to bright light, and to limit headaches resulting from this exposure. This treatment is not acompatible with anti-fog treatment. The colour of the treatment can be gold or other.

### FLEECE

Thick, soft fabric, brushed on both sides.

### FLOCK (GLOVE)

Cotton fibers deposited as a finishing process. Flocking provides a pleasant and soft contact and reduces perspiration.

### FLUCTUATING

Noise whose fluctuations are greater than 5dB during the period of measurement.

### FOAM

Element of ear defenders (with the headband and the ear cups) which attenuates the noise and provides comfort. It's inside the ear cups.

### FOOD (SOLE)

White or light-coloured sole to prevent marks on the floor; anti-slip sole as it is used on very slippery surfaces.

### FREQUENCY

Frequency is expressed in hertz. Only sounds with frequencies of between 20 and 20 000 Hz are audible.

At a frequency of between 20 and 200 Hz, the audible sound is lowpitched. Below that, they are infrasounds.

At a frequency of between 2000 and 20 000 Hz, the audible sound is highpitched. Above that, they are ultasounds.

### FUMES

Small particles suspended in the air (aerosols).



# GLOSSARY

### GAUGE

This is the width of the stitch. It corresponds to the number of needles used in 1 English inch (2.54 cm). Example: gauge 7 corresponds to 7 needles in 1 inch. The higher the gauge, the finer the stitch. Gauges are 7, 10, 13, 14.

G

### **GLASS FIBRE**

Glass fibre is a very fine filament of glass. By extension, composite materials strengthened with this fibre (usually associated with polymers) are also called glass fibre.

Monolithic glass is a very fragile material but when spun to a diameter less than one tenth of a millimetre, it loses its fragility and becomes a highly mechanically resistant material.

### **GRAIN LEATHER**

External part of the dermis, with no mechanical modifications. This is the most supple and resistant part of leather.

### GUSSET

It is the part of the shoe on either side of the tongue. It protects and seals the closure.

H

### HACCP

Hazard Analysis Critical Control Point. This a method of quality control in the food industry, used to:

- identify and analyse the risks associated with various stages in the production process of a foodstuff.
- define the means required to control them.
- ensure that these means are implemented effectively and efficiently.

It is a systematic and rational approach to controlling microbiological, physical and chemical hazards in food.

### HARNESS

An element of the harness. The most of arm webbing are starshape with 4 or 6 arms. Webbing with 6 fixing points or more, ensure better distribution of the force exerted on the helmet. Webbing can be made of polyethylene, or textile for better absorption of perspiration.

### HARNESS (SAFETY HELMET)

It can be made of textile material or polyethylene. Its role is to absorb the impact of a falling object. It is comprised of two elements: the headband and the webbing.

### HEADBAND

Element of ear defenders (with the muffs and the foam), it maintains the pressure of the protection on the ears.

### HEADGEAR

It is one of the elements of the harness of safety helmet. It is often made of low density polyethylene (LDPE). It is adjusted by a tightening system with rack (ratchet), or by a sliding system (tightening straps with notches).

### HEAT SEALED (SEAM)

Seams covered on one side with a band of fabric compatible with that of the garment and hot-welded for increased protection and sealing.

### HML

High Medium Low: 3 levels of frequency measurement.

### HYDROPHILIC

A hydrophilic fabric is comprised of water-absorbent materials (e.g. cotton, wool, etc.).

### HYDROPHOBIC

A hydrophobic fabric is comprised of materials that do not absorb water. (e.g. polyamide, acrylic, polyester...).

### **IMPACT FORCE**

This is the force subjected to the body at the moment of the fall, expressed in daN (decaNewton).

### IMPERMEABLE

An impermeable fabric is used to make products which is completely water and air tight.

Water proofing is usually done by the application of a coating. The coating is a deposit of a plastic film (PVC, polyurethane or acrylic) on the surface of a textile. For example, rain suits with their polyurethane or PVC coatings, boots in PVC or dipped glove.

### IMPULSE

Noise the sound level of which increases considerably almost instantaneously.

### IMPUTRESCIBLE (LEATHER)

After the tanning process, the leather becomes imputrescible, meaning it cannot rot.

### INFRARED

Infrared (IR) radiation is electromagnetic radiation of a wavelength longer than that of visible light, but shorter than that of microwaves. Infrared radiation has wavelengths between about 750 nm and 1 mm, spanning five orders of magnitude.

### INFRASOUNDS

Sounds of a frequency to low to be heard by humans (< 20 Hz). The average human ear only hears sounds within a certain range of frequencies between about 30 Hz (below that the sounds are called infrasounds) and 15 kHz (above which the sounds are called ultrasounds). Some physiologists even extend the limits of this range from 20 Hz to 20 kHz.

### **INJECTION (SOLE)**

Sole or zip manufacturing system, liquid material is injected into a mould, this material then solidifies and takes the form of the mould.

### **INJECTION POINT**

Point through which the press injects polyethylene into the mould and which is cut on removal from the mould.

## INNOCUOUSNESS

The innocuousness of a product guarantees the fact that it contains no materials which may cause allergies to sensitive people. Innocuousness is an integral part of the basic requirements of protective clothing in EN340 or gloves in EN420. Usually, the pH of materials, the chromium VI content of leathers, the nickel emission of metallic materials, azoic dyes and the solidity of the dyes are tested.

## INSOLE

This is the sole inside the shoe, in contact with the sole of the foot.

## INTERLOCK

Basic knitting weave, each side are the same.

Interlock has good dimensional stability which doesn't ladder too much. Widely used to make sports clothing.

## INTERMITTENT

Noise whose fluctuations fall to the ambient level several times.

## IP

The IP protection rating is a standard defined by the CE 60529 standard. This index classifies the degree of protection against intrusions of Solid bodies (dust for example) and liquids (water, oil, etc.). The first figure corresponds to the effective protection against solid bodies. The Second digit corresponds to the effective protection against Liquid bodies. The IP66 rating therefore corresponds to being totally Dustproof and splash-resistant.

## JACKET

A jacket is a garment with sleeves, closed in the front, covering the torso to the waist or hips.

1

## JERSEY

Light and supple knits with a different right and reverse side. Widely used to make t-shirts and undergarments. The advantages of jersey are suppleness and comfort.

К

## **KEVLAR**<sup>®</sup>

Para-aramide fibre manufactured by DuPont de Nemours. It combines lightness and resistance. For equal weight, Kevlar<sup>®</sup> is five times tougher than steel. Its properties: very resistant to cutting, carbonises between 425°C and 475°C; does not melt; self-extinguishing; dimensional stability; chemical stability; alteration of colour under UV.LL

## **KINETIC ENERGY**

Energy that a body has as a result of its motion.

## KNIT

All fabrics made of stitches or interlaced loops, made using needles or hooks. Knits are extensible. The basic fabrics are: rib, interlock, jersey.

## **KNITTED CUFF**

Flexible, elastic knitted band finishing a collar, sleeves, legs, bottom of some garments.

Used to tighten wrists, collars, etc.

- Integrated cuff (knitted at the same time as the main piece).
- Pieced-cuff (knitted separately and stitched).

## LAMINATED (FABRIC)

A laminated fabric is a complex of several layers of woven, knit or non-wovens assembled to enhance their performances.

2-layer laminate is used to describe a fabric laminated on 2 layers with a waterproof fibre usually on the outer layer. The inner layer is usually thicker and softer for greater comfort against the skin.

3-layer laminate is a fabric laminated in 3 layers, usually with waterproofing on the outer layer, comfortable fabric on the inner layer and sandwiched between the two, a waterproof- breathable membrane.

## LANYARD

Generic term, a lanyard can be made of synthetic fibre rope, metal cable, webbing or a chain. A lanyard may not exceed 2 m in length.

## LAST

The last is the basis for any study of the shoe which determines the general look, the volume and fit. It is made of wood for the study and then in plastic for production. The length of the foot, perimeter at the joint, foot width, and instep height are used to determine the size of a shoe and make the basic last.

## LIFELINE

This is an anchor line to which a fall arrest system is connected to safeguard the horizontal movements of a person working at height. The anchor line can be a rope, a strap, a cable or a rail.

## LINING

This is the part in contact with the foot. Often made of leather or textile, it improves the solidity of the shoe and acts like a second skin for comfort.

## LOOSE SOIL

Irregular, uneven surface.

### Μ

## MANUAL ADJUSTMENT

Tightening system for safety helmets, using a sliding plastic strap. This system differs from the rack and ratchet system.

## MECHANICAL REVISION

Class III mechanical fall protection PPE must be inspected at least once a year to ensure the proper functioning of the PPE. This inspection is also mandatory after a possible fall stop.

## MEMBRANE

This is a thin polymer film (PU or polyester) applied to the inner surface of a fabric to enhance waterproofing and breathability.

## MESH

An alveolar fibre, used to enable air circulation and evacuate perspiration.

## MICROFIBRE

Light, very fine and soft synthetic textile fibre with soft touch, skin of peach aspect.

## MIDSOLE

The midsole is also called the comfort sole, whereas the outsole is in contact with the ground; together they make up the two parts of a shoe sole.

## MIG/MAG (WELDING)

MIG (Metal-arc Inert Gas) or MAG (Metal-arc Active Gas) welding (the only difference between the two is the gas used to protect the welding bath), both indicated in AWS terminology as GMAW (Gas Metal Arc Welding), is a semi-automatic welding process.

The metals are melted by the heat energy released by an electric arc which erupts in a protected atmosphere between a fuse electrode wire and the parts to be assembled.

## MIRRORED

See flash.

## MOULDED

Moulding is a technique which consists of shaping an object using a mould which is hollow to hug the form of the desired object.

The moulded material must be able to change from the liquid to the solid state or be thick but sufficiently consistent to be able to be removed from the mould without deforming.

A wide range of materials can be moulded:

• metals

• plastics. The manufacturing process for frames is injection moulding.

A part production technique for large or very large production runs, this moulding can be in disk or in form.

Ν

## NANOMETRES

Unit of measurement (1 millionth of a mm) used to calculate the wavelength of light. Maxwell in 1865 succeeded in demonstrating that light is an electromagentic wave whose field is measured in nanometres, with a visible and invisible spectrum. The wavelength determines the colour of the light. The human eye is only sensitive to wavelengths between 400 and 700 nm.

## NATURAL LATEX

This is a natural polyisoprene from the Hevea braziliensis. It is part of the elastomer family, and is therefore elastic, supple and robust. It also has the properties of being impermeable to water, and resistant to detergents and some alcohols.

## NBR (NITRILE)

This is a type of Nitrile: Nitrile Butadiene Rubber (NBR).

## NFC

Near Field Communication is a recent technology that allows the user to establish communication between 2 compatible devices at short distance using a shortwave technique. The NFC is Available in most smartphones.

## NITRILE

It is a synthetic latex. Its vulcanisation gives it properties similar to natural latex and many advantages (resistance to abrasion; excellent performance in oily and greasy environments; good resistance to chemical products).

## NON WOVEN

Non-wovens are used to make numerous products: single-use garments, quilt padding, sleeping bags, cleaning cloths, baby's nappies, floor and wall coverings, reinforcements, garment padding, etc...

The three production processes for the lap of non-wovens are:

- dry spinning the fibres are used directly off the cards to make mattresses of fibres.
- by wet spinning a process similar to paper manufacture is used.
- by melt spinning the synthetic filaments are extruded in a current of hot air then lapped.

## NON-INVERTING DEVICE

Element added to a sliding fall arrester to prevent installing it upside don on the anchor line.

## NOSE CLIP

A flexible piece located at the top of single-use half-masks (on the nose), to adjust the face piece to the user's morphology.

## NOTIFIED BODY

A Notified Body in the framework of the EU 2016/425 Regulation is a conformity assessment body, body that performs conformity assessment activities including calibration, testing, cerfication (Module B) and inspection (Module C2 and D).

A notified body is inspected by the competent authorities of the Member States.

## NPF

Nominal Protective Factor.

Formula used to define the level of protection provided by wearing a respiratory protective mask, and in standard test conditions: NPF = 100 / TIL (%). The maximum exposure concentration corresponds to: NPF x MEV.

## NUBUCK (LEATHER)

Grain leather the surface of which has been buffed, giving it a fine velvety and silky aspect.

## NYLON

Registered trade name of DuPont de Nemours. It is a polyamide.



## **OIL-WATER REPELLENT**

Leather treatment using mineral or synthetic oils or fluorinated resins, to make it resistant to water and/or oil penetration. This treatment gives the leather better mechanical performance for abrasion and increases the comfort (flexibility) of the glove, hence increased dexterity and lifespan.

Π

## **OPTICAL BASE**

This is the radius of curvature of the lens. The most curved optical base is 9; the least curved is 4; the most common is 6.

#### **OPTICAL CLASS**

Parameter which measures the optical quality of the lens. There are 3 classes of optical quality. The 1st corresponds to the best quality and is recommended for permanent wearing of glasses. The 2nd class is used for intermittent wearing and the 3rd only for very brief wearing.

## OUTSOLE

The sole, also called the outsole, is the part of the shoe in contact with the ground. As a result, it must be as tough as possible. With the midsole, it comprises the two parts of the sole of a shoe.

#### OUTSOLE

The sole is the under part of the shoe. It is in contact with the ground. Several soles can be used to make up protective footwear. The materials used to make them, their sculpture and the manufacturing process will ensure the ergonomic performance required, i.e.: Grip, Anti-slip, Safety & Wearer comfort.

## OVERALL

Single-piece garment covering the whole body.

#### **OVERCAST (SEAM)**

Seams made using overcast stitch consisting of interlacing three threads around two edges of the fabric to be assembled.

#### OVERGLASSES

Protective glasses designed to be worn over spectacles.

## OXFORD

Thick-yarned plain weave with a lustred finish similar to the Oxford weave of cotton shirts.

## **PANOFLEX®**

Flexion zones integrated into the sole to enhance flexibility.

#### **PANOSHOCK®**

Delta Plus innovation: piece of expanded rubber which absorbs and reduces shock waves to the spinal column.

P

#### PARKA

A parka is by definition shorter than a coat, longer than a jacket or a blouson, and is impermeable.

#### PATTERN CUTTER

Person who makes the templates or patterns for garments: uppers for shoes, patterns for clothing, before cutting and assembly.

#### PERMEATION

Although the glove shows no porosity or imperfection, the chemical product may gradually pass through the glove, and come into contact with the skin. The standard EN374 assesses this performance: the time (in minutes) taken by the chemical substance to integrate and pass through the protective material is measured (1 mg/m<sup>2</sup>).

#### **PHYLON**<sup>®</sup>

PHYLON® is a synthetic materials, supple, ultra light, shock absorbent, used in running shoes by all the major sports brands; It is an EVA insert (Ethylene Vinyl Acetate) moulded, expanded.

## **PIGMENTED (SPLIT LEATHER)**

Split leather coated with a layer of pigment. This is an economical, quality and resistant shoe leather.

## PIQUE EFFECT (STITCH)

Knitted fabric with a raised waffle texture.

#### PLATING

Knitting process consisting of obtained two different fabric sides, each with a different type of yarn. Also used to combine two advantages: comfort and resistance for example.

## POLAR FLEECE

Stitch brushed on one or both sides to obtain an aspect as soft as velvet. Polar fleece provides unrivalled comfort thanks to its lightness, its softness, its breathability and its extensibility. As this stitch is not wind breaking, polar fleece complexes with microporous membranes have been developed.

## POLO

Polos are originally sports shirts with a turned-down collar, more specifically of Jersey.

## POLYAMIDE

Synthetic fibre resistant to traction and abrasion. This is an elastic fibre that recovers its original shape after deformation. It dries rapidly as it absorbs little water. It is insect-resistant (especially against mites).

# **GLOSSARY**

## **POLYCARBONATE (PC)**

Polycarbonate is a polymer (plastic) which has excellent mechanical properties and thermal resistance enabling it to be used at temperatures of up to 120°C. It has optimal shock resistance, hence its use in many sectors. It filters 99.9% of UV between 0 and 380 nm, UV 400 treatment extends this protection to 400 nm and absorbs part of the blue light in the light spectrum. Its sensitivity to chemical agents and to ultraviolet rays limits its use, however.

## POLYESTER

Synthetic fibre with several advantages similar to those of polyamides: resistance to traction and friction; good elasticity; uncreasable; solidity of dyes; easy care; high resistance to abrasion, resistance to acids, bases and solvents, and to heat. It can be mixed with wool and cotton, which makes up for its inability to absorb transpiration, its rough texture and its tendency to pilling.

## POLYETHYLENE

Polymer obtained by polymerisation of ethylene molecules. This is a material, with good chemical resistance, high stability, and easily recycled.

Polyethylenes (PE) are classified according to their density:

- LDPE (low density) is a supple plastic, used for helmet harnesses for example.
- HDPE (high density) is a hard plastic, used for the shell of helmets for example.

HSPE (high strength) provides good mechanical performances in particular against cutting, such as the fibre TAEKI for example.

## POLYMER

A polymer is the name of a chain of molecules used to make synthetic filaments before being melted and transformed into yarns. The polymerization operation is a process to manufacture a polymer by connecting small molecules (monomer) into a molecular chain of multiple molecular weight (mass).

## POLYMERIZATION

Chemical process by which resins or plastics are fixed to textile materials by means of heat to obtain canvas with coating.

## POLYPROPYLENE (PP)

Belongs to polyolefin fibres, structurally very similar to polyethylene. Polypropylene can be used as a plastic (helmets) or as a fibre (woven or non woven).

This material is easily recyclable, resistant to friction (abrasion) and to traction. It is grease-resistant. Its melting point is higher than 160°.

## POLYTEXTURE

Material effect by association of weaving. Example: Ripstop with a box-effect.

## POLYURETHANE (PU)

Polyurethane is a polymer transformed into synthetic resin or foam used in coatings, in some membranes and in the manufacture of elastane yarns (Lycra®). Polyurethane is frequently used for coating, making fabrics waterproof. Garments made with such coatings are often breathable and very good alternative solutions to much more expensive products made using waterproof breathable membranes. It has very good mechanical resistance (wear, abrasion, tearing and micro-cuts).

## PONGEE

Fabric with a silky, shiny finish.

## POPLIN

Tightly woven cotton plain weave used primarily for shirts.

## **POWDERED (GLOVE)**

Finishing process using a powder deposit (usually corn starch). The result is pleasant to the touch and soft which limits transpiration. For disposable gloves, the powdering facilitates donning and removal.

## PPE

Personal Protective Equipment.

According to the EU 2016/425 Regulation, any equipment designed and manufactured to be worn or held by a person for protection against one or more risks to that person's health or safety, and any interchangeable components which are essential for the protective function of this equipment.

## PRE-FILTER

Thin filter for protection against dust (P2 or P3), to be used on full and half-masks, associated with anti-gas filters (A/B/E/K) in order to obtain a combined gas and dust filter.

## PU WATER (MANUFACTURING)

Innovative manufacturing process for PU coated gloves, 100% waterbased, i.e. no solvents, such as DMF, are used to ensure the bonding of the polyurethane (PU) and the support. As well as limiting the environmental impact of manufacturing, this technology minimizes the quantity of coating that penetrates inside the glove, making the support softer and more comfortable, as it limits transpiration and the accumulation of heat.

## **PUPILLARY (REFLEX)**

The eye's adaptation to light intensity: the pupil dilates or retracts.

## PVC

Polyvinyl chloride is a polymer usually known by its abbreviation PVC. PVC resists many solvents, acids and chemical products (in particular hydrocarbons). Fabrics coated with PVC are real barriers against bad weather. However, they should be worn for a limited time depending on the temperature in the working environment.

## Q

## QUILTED

Insulating lining made by superimposing materials held together by decorative stitching (fleece + lining).



## **RAGLAN (SLEEVE)**

Sleeve assembled on the bias, from the neck to the underarm. There are no shoulder or underarm seams, making for greater ease of movement.

R

#### RATCHET

Tightening system of the headband for safety helmet, for easier adjustment, using a ratchet.

## REINFORCEMENT

Insert (often made of leather) stitched to the glove in the zones most exposed to the risks of abrasion and cutting (Palm reinforcement, Web reinforcement between the thumb and index finger) or lateral or in front of the shoes.

#### **RESTRAINT (SYSTEM)**

System designed to attach a person to an anchorage point so as to prevent any fall from height.

#### **RETRO REFLECTIVE (BAND)**

These are bands fixed to high-visibility garments. 3M Scotchlite™ uses 2 types of technologies, microprisms (better contrast, rigidity suited to some garments) and microbeads (resistant to washing, high flexibility), and offer several different types of bands (stitched or sealed). Retro reflective materials are used to reflect light by day and by night.

#### **REVERSE GRAIN**

Use of the inner part of the grain enabling considerable suppleness to be maintained, and significantly improving resistance to abrasion. Water-repellent treatment applied to reverse grain is ten times more effective than on the grain itself.

#### RIB

1x1 / 2x1 / 2x2 type knits (the first and the second figure respectively indicate the number of column in relief and column in hollow seen on the face place) used to make very elastic and reversible knits. Used mainly to make sweaters, cuffs and hose and undergarments.

#### RIPSTOP

This is a box-effect fabric weave (thicker yarn) that prevents tears from spreading while reducing the weight of the fabric.

#### ROLLING

Action of crushing leather on its whole surface with a roller to make it firmer and more flexible.

#### RUBBER

Synthetic elastomer made from oil and with elastic and resistance properties. The advantages of this material are to offer mechanical properties of good grip, good resistance to abrasion, contact heat and to oils and grease.

#### SATIN (WEAVE)

A fabric with a «satin» type weave is characterised by a shiny and smooth aspect. The yarn density gives it the advantage of not igniting as easily as «plain» weave. With special treatments, such as Proban®, flame retardants, it is a flame resistant material widely used for PPE.

S

### SCIVING

Operation to thin the leather to prevent over-thickness during assembly.

#### SEAT STRAP

Strap used in the design of a harness with the dual role of seat and force distribution in the event of a fall, hence preventing too violent a force between the legs and any resulting consequences. The seat strap is not obligatory on a harness.

#### SELF-RELEASE (SYSTEM)

Chinstrap mechanism, ensure proper operation. According to standard EN397: the system should be triggered by a force > 150 N and < 250 N.

## SELF-RETRACTABLE FALL ARRESTER

Device with automatic blocking system and an automatic lanyard tensioning system.

#### SHANK

Used to support the instep. Very often made of wood, then steel, it is also now made of composite material. Its role is to maintain the instep, or arch of the foot.

#### SHELL (SAFETY HELMET)

The shell is one of the components in a safety helmet (external part). Its role is to limit injuries by contact impacts (crushing and penetration).

- It is made by injection from two types of materials:
- HPDE (high density polyethylene), an efficient material, the most economical and widely used.
- ABS (acrylontrile butadiene styrene), a more rigid material.

#### SILICONE (FREE GLOVE)

Silicones are polymers derived from sand. They are present more or less everywhere, in the form of mastics, glues, joints, anti-foam additives for washing powders, cosmetics, medical equipment, electrical cable insulation sheaths, highperformance grease, etc...

A certified silicone-free glove has a considerable advantage in industries requiring the total absence of silicone in their manufacturing or assembly process, for example in the automobile industry to guarantee paint without marks.

# **GLOSSARY**

## SIZE

Half pelt cut from head to tail along the line of the backbone. Set of measurements of the shoe volume, usually determined by the length and width of the foot, measured around the joint of the toes (toe width). Additional measurement tables, such as the height of the instep, determine the various sizes.

There are three main measurement systems in use in the world:

- french sizes (from 17 to 48).
- english sizes (1 to 13 feet).
- american sizes (equivalent to the English sizes + 0.5).

#### **SLIDING FALL ARRESTER**

Fall arrester with an automatic blocking function and a guidance system. The fall arrester moves along an anchor line. It accompanies the user in his movements with no manual intervention needed by him. In the event of a fall, the fall arrester automatically blocks on the anchor line.

#### SNR

Single Number Rating: a simple and widely used method to mesure the attenuantion noise, even if not really precise (measurement of decibels without taking account of frequencies).

#### SOFTSHELL

Soft shell materials are hybrid materials. Between the polar fleece and the windbreaker, «softshells» combine several advantages: keep in body heat, evacuate humidity and act as a barrier to external aggressions, mainly wind and fine rain. It may be laminated to enhance performances (breathable, water repellant).

## SOLVENT (FREE COATING)

A solvent is a liquid that has the property of dissolving and diluting other substances without changing them chemically and without changing itself. The new innovative manufacturing process, also called PU Water, is 100% based on water. No solvent, such as DMF, is used to ensure the bond between the polyurethane (PU) and the support.

#### SOUND

A sound is an acoustic vibration, a movement of particles in an elastic medium: the air.

Sound is characterised by its intensity (amplitude of variations in air pressure): high or low which is expressed in decibels (dB). Sound is also characterised by its height: high or low-pitched (number of oscillations per second) which is expressed in Hertz (Hz).

## SPLICE

The process of weaving one end of a stranded rope or cable into the other in order to create a loop.

## SPLIT

Internal part of the dermis, obtained by splitting or any other operation to remove the outer layer. The resistance to abrasion and heat are split advantages (after heat treatment).

#### STABLE

Noise whose fluctuations do not exceed 1dB during the measurement period.

## STEEL

Use for the anti-puncture sole for its resistance to a force of 1100N and use for safety shoe toecap for its resistance to 100 or 200 joules.

## STEL

Short terme exposure limit.

Concentration measured in mg/m3 or in ppm over a maximum time of 15 minutes that it is advisable not to exceed.

## STIFFENER

A semi-rigid part inserted between the upper and the lining, located at the back of the shoe to prevent flattening and hold the heel in place.

## STRAPS (MAIN)

The main straps are elements which are used in the design of a fall arrest harness. They should support a person's body during and after the fall. Other straps in the design of a harness are called secondary straps.

## **STROEBEL (STITCH)**

This stitch is just the overstitch known to seamstresses; a single thread is chain-stitched to assemble the insole to the upper...

## STRUCTURE

In knitting, the method of interlacing stitches is called the structure. The three basic knit structures are jersey, interlock and rib.

## STYLIST

Person in charge of creating the sketch for a product (shoe, garment, glasses...) integrating technical elements and design constraints.

## SUEDE (LEATHER)

Split suede leather is made from the flesh and buffed to obtain the suede aspect, like Nubuck, but which is from the grain.

## SUPPORTED (GLOVE)

The dipped form is covered (or not: non supported) with a jersey or interlock cotton knit glove. A supported glove has better mechanical protections and comfort than an unsupported glove.

## SWEATBAND

Sheep or lambskin prepared by vegetable tanning, finished without dye and mainly used in linings.

## SWIVELLING CONNECTOR

Element often added to a connector or a fall arrester enabling separate rotation of the two parts.

## SYNTHETICS

Fibres of chemical origin: in this family are the polyesters, the polyamides, acrylics, para-aramides, polyethylenes, elasthanes, etc.



## TAEKI® (FIBRE)

Synthetic fibre made of high-strength polyethylene (PEHT). It has exceptional mechanical properties, in particular against abrasion and cutting. 2<sup>nd</sup> generation TAEKI fibre is much softer than the 1st generation, thus providing greater comfort.

## TANNING

Tanning transforms the raw hide into an unfinished tanned hide, making it rot-proof, receptive to finishing treatments and chemically stable. There are different types of tanning:

• vegetable tanning (natural plant extract tannins).

- mineral tanning (usually with chromium salts).
- mixed tanning (vegetable tanning retanned with chromium).

## TASLON

Rough textured fabric. The very tight crossing of its fibres makes it a robust fabric.

## THERMOFUSING

Bonding operation using pressure and heat (high visibility strip on a garment, interlining in a collar...

## THIMBLE

Element added inside an end loop to protect from wear generated by the friction.

## THINSULATE™

Registered trade mark of 3M. It is a web of synthetic insulting non-woven combining heat, comfort and finesse. It is water repellent.

## THT (HEAT-PROOF LEATHER)

Treatment used to make the leather more resistant to contact heat and reduce shrinkage on contact with a flame. The leather remains supple despite contact with a heat source.

## TIL

Total Inward Leakage.

It corresponds to the performance of the filtering face piece, and is expressed in %. The lower the %, the greater the protection performance. FFP1: 22%

FFP2: 8%

- FFP3: 2%

## **TOECAP (SAFETY)**

Steel, aluminium or composite shell to protect against the risk of impact and crushing of the toes. Performance is measured at 100 or 200 joules. These are the two main tests; there is also rust resistance (metal toecap), resistance to heat, to hydrocarbons, and to cold for composite toecaps.

## TRIPOD

Temporary and carrying anchorage device to be used for vertical movements in confiined space.

## **T-SHIRT**

T-shirts are cotton garments covering the torso, without a collar, most often short-sleeved, the shape of which is reminiscent of a T.

## TWA

Time Weighted Average.

Concentration measured in mg/m3 or in ppm, for an exposure time equal to the work day (workday of 8 hours), corresponding to the toxic risk.

## TWILL

A fabric with a «twill» weave is characterised by ribbing (diagonal relief ) on the rightside of the fabric, the underside is different. «Twill» weave is a weave that resists wear and traction.

## **TYVEK**®

The basic material in Tyvek<sup>®</sup> is polyethylene. Under the effects of pressure and heat (Flash spinning), a multitude of continuous filaments are obtained which are melt bonded to give a non-woven that is lightweight, flexible and resistant.

## ULTRASOUNDS

Sounds of a frequency too high to be heard by humans (> 20 000Hz).

## ULTRAVIOLET

Ultraviolet (UV) light is electromagnetic radiation with an intermediate wavelength between that of visible light and that of X-rays. Ultraviolet can be subdivided into near UV (380-200 nm wavelength) and extreme UV (200-10 nm). Sunburns are primarily due to UV-B. UV-A cause of sunburns during very long exposures. High intensity of UV-B (315-280 nm) are dangerous for eyes and can cause "welder's flash" or photokeratitis.

## UNITS OF MEASUREMENT (YARNS)

The Tex, Decitex (Dtex), Denier (D) or Metric count (Nm) are units of measurement for yarns used to qualify their size also known as «Thread count».

## UPPER

Top part of the shoe located above the sole, comprising the tongue, the collar and the quarters.

## VALVE

Also called a flap, it provides additional comfort to the mask, by rapidly lowering its temperature at the moment of expiration and rejection of CO<sub>2</sub>. It is on disposable masks (product code V), half masks or full face masks.

## VAMP

Front part at the level of the instep and on the sides.





## VENTILATION

Holes located at the top of the shell to enable better evacuation of heat and perspiration.

Ventilated helmets therefore do not pass the electric test (440 VAC), except for ventilations located at the bottom of the shell, as the test is conducted by immersing the shell to half-height.

## VERIFICATION

Visual inspection of Class III fall-based PPE with textile base.

## VEST

A vest is a short garment without sleeve, which covers top of the body.

## VINYL

Synthetic thermoplastic polymer. It is used for disposable gloves. It is impermeable to water, alcohol and detergents, but it is not elastic.

## VISIBLE (LIGHT)

Visible lightvisible spectrum or optical spectrum is the part of the electromagnetic spectrum which is visible to the human eye. There is no definite limit to the visible spectrum: the human eye adapting to light usually has maximum sensitivity at light of wavelength about 550 nm, which corresponds to a yellow-green colour.

## VULCANISATION

Vulcanisation is a process invented by Goodyear, which consists of heating the rubber at high temperature to obtain its transformation. This process is used for dipped gloves, placed in an oven after dipping in materials.

W

## WADDED (LINING)

Lining associated with a thickness of fleece to enhance the heat performance of the garment.

## WARP

It is the vertical yarns of knitted fabric in opposite to horizontal yarns.

## WATER REPELLENT (FABRIC)

Finish deposited on the fabric to give it the property of not letting droplets of water penetrate the fibre, but allowing them to slide off. It can be said that the drops of water are repelled. The fabric is not waterproof.

## WATER REPELLENT (LEATHER)

Leather treatment using mineral or synthetic oils or fluorinated resins, to make it resistant to water penetration. This treatment gives the leather better mechanical performance for abrasion and increases the comfort (flexibility) of the glove, hence increased dexterity and lifespan.

## WATERPROOF (SEAMS)

Seam on which a waterproof plastic film is applied to prevent water penetration by capillarity (passage of water by absorption of yarns and/or stitching holes) into an assembly. Assembly seam covered using thermofusing of a band of material compatible with that of the garment to prevent infiltration of water and waterproof the garment.

## WEAVE

Method of interlacing warp and weft yarns in woven materials. Each weave has its own aesthetic and mechanical properties. The main fabric weaves are plain, serge, satin. The three basic knit weaves are jersey, interlock, rib. In knitting, the method of interlacing stitches is called the structure.

## WEFT

These are the horizontal yarns in woven fabrics, as opposed to vertical warp yarns.

## WELDING

Glasses or hood with various shades of filters suitable for welding work; disposable masks with charcoal filter, welding goggles and helmets with special tinted filter, to protect the eyes and face during welding.

## WINCH

Lifting device for lifting things (eg equipment) or people, according to the tyope of product, in rescue procedure

## WORK POSITIONING (SYSTEM)

A system used to maintain a user at the workstation in a given position.

## WRIST CUFF

Knitted finish of the glove wrist, to hold the glove on the wrist and prevent any penetration of dust and waste inside the glove.

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## ZIP (REVERSE STITCH)

Zip whose stitch is placed on the reverse so that only the ribbon can be seen. It is used for an aesthetic effect and to prevent friction.

## ZIP (WATERTIGHT)

Reverse stitch zip covered with a PU membrane to ensure watertightness. It is used on waterproof and technical products.



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NITREX VE802114NITREX VE803114NITREX VE803115NITREX VE800114NITREX VE846115NYSOS VV90496PETRO ESD VE78184PETRO VE766108PICAFLOR VE240118PM159137PM160137PVC7327109PVC7335109PVCGRIP35109SAFE & STRONG VV81188SAFE & STRONG VV81188SAFE & STRONG VV811133TER250133TER250133TERK400132TIGI5K134TIG15K134TOUTRAVO VE510110TOUTRAVO VE510113TP189137VE200118VE440116VE831103VE702103VE702103	NI175	117
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NITREX VE830     115       NITREX VE840     114       NITREX VE846     115       NYSOS VV904     96       PETRO ESD VE781     84       PETRO VE786     108       PETRO VE780     108       PITAFLOR VE240     118       PM159     137       PM160     137       PVC327     109       PVC335     109       SAFE & STRONG VV811     88       SAFE & STRONG VV811     88       SAFE & TOUCH VV905N0     97       SOFT-NIT VE470     133       TER250     133       TERK400     132       THEMIS VV792 ESD     84       THRYM VV736     98       TIG15K     134       TOUTRAVO VE510     110       TOUTRAVO VE511     113       TPI69     137       VE200     118       VE400     116       VE630     103       VE631     103       VE631     103       VE702     87	NITREX VE802	114
NITREX VE840     114       NITREX VE846     115       NYSOS VV904     96       PETR0 ESD VE781     84       PETR0 VE786     108       PETR0 VE780     108       PICAFLOR VE240     118       PM159     137       PM160     137       PVC7327     109       PVC7335     109       PVCGRIP35     109       SAFE & STRONG VV811     88       SAFE & TOUCH VV905N0     97       SOFT-NIT VE470     133       TC716     133       TERK400     132       THEMIS VV792 ESD     84       THRYM VV736     98       TIG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE510     110       TOUTRAVO VE511     118       VE200     118       VE400     116       VE831     103       VE831     103       VE702     87	NITREX VE803	114
NITREX VE846     115       NYSOS VV904     96       PETRO ESD VE781     84       PETRO VE786     108       PETRO VE780     108       PICAFLOR VE240     118       PM159     137       PW150     137       PW07327     109       PVC7327     109       PVC7325     109       PVC7325     109       PVC7326     109       PVC737     109       SAFE & STRONG VV811     88       SAFE & STRONG VV811     81       SAFE & STRONG VV811     133       TC716     133       TER250     133       TERE450     134       TIG15K     134       TIG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE509     101       TOUTRAVO VE510     113       VE200     118       VE440     168       VE630     103       VE631     103       VE702     87	NITREX VE830	115
NYSOS VV904     96       PETRO ESD VE781     84       PETRO VE766     108       PETRO VE780     108       PICAFLOR VE240     118       PM159     137       PM150     137       PVC7327     109       PVC7335     109       PVC7335     109       PVC6RIP35     109       SAFE & STRONG V0811     88       SAFE & STRONG V0811     133       TC716     133       TC718     133       TERK400     132       THEMS VV792 ESD     84       THRYM VV736     98       TIG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE509     101       TOUTRAVO VE510     137       VE200     18       VE440     16       VE631     103       VE702     87	NITREX VE840	114
PETRO ESD VE781         84           PETRO VE786         108           PETRO VE780         108           PICAFLOR VE240         18           PM159         137           PM150         137           PM150         137           PV160         18           PV27327         109           PVC7335         109           PVC7335         109           SAFE & STRONG VV811         88           SAFE & STRONG VV811         88           SAFE & STRONG VV811         133           TC718         133           TER250         133           TER250         133           TER400         132           THRMN VV732 ESD         84           TIG15K         134           TOUTRAVO VE509         100           TOUTRAVO VE509         110           TOUTRAVO VE510         115           VE200         18           VE440         18           VE630         103           VE631         103           VE702         87	NITREX VE846	115
PETRO VE766       108         PETRO VE780       108         PICAFLOR VE240       18         PM159       137         PM160       137         PVC7327       109         PVC7335       109         PVCGRIP35       109         SAFE & STRONG VV811       88         SAFE & TOUCH VV905N0       97         SOFT-NIT VE470       133         TER250       133         TERK400       132         THMIS VV792 ESD       84         TIG15K       134         TOUTRAV0 VE509       100         TOUTRAV0 VE510       110         TOUTRAV0 VE510       113         VE200       18         VE630       103         VE631       103         VE702       87	NYSOS VV904	96
PETRO VE780     108       PICAFLOR VE240     118       PM159     137       PM160     137       PVC7327     109       PVC7335     109       PVCGRIP35     109       SAFE & STRONG VV811     88       SAFE & TOUCH VV905N0     97       SOFT-NIT VE470     113       TC716     133       TER250     133       TERK400     132       THEMIS VV792 ESD     84       TIG15K     134       TOUTRAV0 VE509     100       TOUTRAV0 VE510     113       TPI69     137       VE200     118       VE630     103       VE631     103       VE702     87	PETRO ESD VE781	84
PICAFLOR VE240       118         PM159       137         PM160       137         PVC7327       109         PVC7335       109         PVCGRIP35       109         SAFE & STRONG VV811       88         SAFE & TOUCH VV905N0       97         SOFT-NIT VE470       133         TC716       133         TER250       133         TERK400       132         TIG15K       134         T0UTRAV0 VE509       100         T0UTRAV0 VE510       110         T0UTRAV0 VE510       113         TP169       137         VE200       18         VE440       16         VE831       103         VE831       103         VE702       87	PETRO VE766	108
PM159         137           PM160         137           PVC7327         109           PVC7335         109           PVCGRIP35         109           SAFE & STRONG VV811         88           SAFE & TOUCH VV905N0         97           SOFT-NIT VE470         133           TC718         133           TER250         133           TERK400         132           THMIS VV792 ESD         84           TOUTRAV0 VE509         100           TOUTRAV0 VE510         110           TOUTRAV0 VE511         111           TP169         137           VE200         118           VE440         166           VE631         103           VE631         103	PETRO VE780	108
PMI60         137           PVC7327         109           PVC7335         109           PVCGRIP35         109           SAFE & STRONG VV811         88           SAFE & TOUCH VV905N0         97           SOFT-NIT VE470         133           TC718         133           TER250         133           TERK400         132           THEMIS VV792 ESD         84           TOUTRAV0 VE509         100           TOUTRAV0 VE509         101           TOUTRAV0 VE510         111           TPI69         137           VE200         18           VE440         16           VE631         103           VE631         103           VE702         87	PICAFLOR VE240	118
PVC7327         109           PVC7335         109           PVCGRIP35         109           SAFE & STRONG VV811         88           SAFE & TOUCH VV905N0         97           SOFT-NIT VE470         113           TC718         133           TER250         133           TERK400         132           THEMIS VV792 ESD         84           THYM VV736         98           TIG15K         134           TOUTRAV0 VE509         100           TOUTRAV0 VE510         110           TOUTRAV0 VE510         116           VE200         18           VE440         16           VE631         103           VE702         87	PM159	137
PVC7335     109       PVCGRIP35     109       SAFE & STRONG VV811     88       SAFE & TOUCH VV905N0     97       SOFT-NIT VE470     113       TC718     133       TER250     133       TERK400     132       THEMIS VV792 ESD     84       TIG15K     134       TOUTRAV0 VE509     10       TOUTRAV0 VE510     11       TU199     137       VE200     18       VE440     16       VE630     103       VE631     103       VE702     87	PM160	137
PVC7335     109       PVCGRIP35     109       SAFE & STRONG VV811     88       SAFE & TOUCH VV905N0     97       SOFT-NIT VE470     113       TC718     133       TER250     133       TERK400     132       THEMIS VV792 ESD     84       TIG15K     134       TOUTRAV0 VE509     10       TOUTRAV0 VE510     11       TU199     137       VE200     18       VE440     16       VE630     103       VE631     103       VE702     87	PVC7327	109
SAFE & STRONG VV811     88       SAFE & TOUCH VV905N0     97       SOFT-NIT VE470     133       TC716     133       TER250     133       TER250     132       THRYG     88       THEMIS VV792 ESD     84       THRYM VV736     98       TIG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE510     111       TP169     137       VE200     118       VE630     103       VE631     103       VE702     87		109
SAFE & TOUCH VV905N0     97       SOFT-NIT VE470     113       TC718     133       TER250     133       TER250     132       TERK400     132       THEMIS VV792 ESD     84       THRYM VV736     98       TIGI5K     134       TOUTRAV0 VE509     100       TOUTRAV0 VE510     110       TOUTRAV0 VE510     113       VE200     118       VE440     116       VE630     103       VE631     103       VE702     87	PVCGRIP35	109
SOFT-NIT VE470     113       TC716     133       TER250     133       TER250     132       TERK400     132       THEMIS VV792 ESD     84       TIG15K     134       TG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     118       VE440     116       VE631     103       VE702     87	SAFE & STRONG VV811	88
TC716     133       TER250     133       TER250     132       TERK400     132       THEMIS VV792 ESD     84       THYM VV736     98       TIG15K     134       TOUTRAV0 VE509     10       TOUTRAV0 VE510     10       TOUTRAV0 VE510     110       TUTR4V0 VE511     111       TP169     137       VE200     118       VE440     116       VE631     03       VE702     87	SAFE & TOUCH VV905NO	97
TER250     133       TERX400     132       THEMIS VV792 ESD     84       THRYM VV736     98       TIG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     18       VE440     16       VE631     103       VE631     103       VE702     87	SOFT-NIT VE470	113
TER250     133       TERX400     132       THEMIS VV792 ESD     84       THRYM VV736     98       TIG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     18       VE440     16       VE631     103       VE631     103       VE702     87	TC716	133
TERK400     132       THEMIS VV792 ESD     84       THRYM VV736     98       TIG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     18       VE440     16       VE631     103       VE702     87		133
THEMIS VV792 ESD     84       THRYM VV736     98       TIG15K     134       TOUTRAVO VE509     10       TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     118       VE440     116       VE630     103       VE631     103       VE702     87		
THRYM VV736     98       TIG15K     134       TOUTRAVO VE509     100       TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     118       VE440     106       VE630     103       VE631     103       VE702     87		
TIG15K     134       TOUTRAVO VE509     110       TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     118       VE440     116       VE630     103       VE631     103       VE702     87		
TOUTRAVO VE509     110       TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     118       VE440     116       VE630     103       VE631     103       VE702     87		
TOUTRAVO VE510     110       TOUTRAVO VE511     111       TP169     137       VE200     118       VE440     116       VE630     103       VE631     103       VE702     87		
TOUTRAVO VE511     111       TP169     137       VE200     118       VE440     116       VE630     103       VE631     103       VE702     87		
TP169     137       VE200     118       VE440     116       VE630     103       VE631     103       VE702     87		
VE200     118       VE440     116       VE630     103       VE631     103       VE702     87		
VE440         116           VE630         103           VE631         103           VE702         87		
VE630         103           VE631         103           VE702         87		
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VE702P87VE702PG87VE702PN87VE712GR91VE71389VE715GR91VE72690VE72790VE72890VE72990VE7300R102VE7303102VE7300R103VENICUT FATENCUT70VENICUT FATENCUT71VENICUT FATENCUT72VENICUT FATENCUT73VENICUT 5ATENCUT73VENICUT 5ATENCUT73VENICUT3280VENICUT3280VENICUT3280VENICUT3473VENICUT3473VENICUT3473VENICUT36GR78VENICUT3479VENICUT5078VENICUT5178VENICUT54BL78VENICUT54BL79VENICUT54BL71VENICUT54BL71VENICUT54BL71VENICUT54BL71VENICUT54BL71VENICUT54BL71VENICUT54BL71VENICUT54BL71VENICUT5571VENICUT54BL72VENICUT54BL72VENICUT54C73VENICUT54C73VENICUT54C73VENICUT54C73VENICUT5574VENICUT5474VENICUT5474VENICUT5474VENICUT5474VENICUT5474VENICUT54 <td< th=""><th></th><th></th></td<>		
VE702PN97VE702R91VE712GR91VE72G91VE72G90VE72G90VE72G90VE72G90VE72G90VE72G90VE72G90VE730R121VE730Q91VE730Q92VE730Q93VENCLEAN V194073VENCLT D HEAT 6 CUT FOAM76VENCUT D HEAT 6 CUT FOAM76VENCUT 5 XTREM CUT 10UCH73VENCUT2Q83VENCUT3Q83VENCUT3Q83VENCUT3Q83VENCUT3Q83VENCUT3Q78VENCUT3Q78VENCUT3Q78VENCUT4Q79VENCUT4Q78VENCUT4Q78VENCUT4Q78VENCUT4Q78VENCUT4Q78VENCUT4Q78VENCUT4Q79VENCUT4Q79VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q76VENCUT5Q	VE702P	87
VE712GR91VE712GR91VE72G91VE72G90VE72T90VE72T90VE72T90VE72T90VE72T90VE72T90VE72T90VE72T90VE72T90VE72T90VE73DOR91VE73DOR91VENCUT D HEAT 5 CUT FOAM70VENCUT D HEAT 5 CUT FOAM71VENCUT T FIREM CUT TOUCH73VENCUT 2083VENCUT3283VENCUT3283VENCUT3283VENCUT3283VENCUT3383VENCUT3478VENCUT46R78VENCUT4578VENCUT42GN78VENCUT42GN78VENCUT42GN78VENCUT4379VENCUT4479VENCUT5376VENCUT54 <td< td=""><td>VE702PG</td><td>87</td></td<>	VE702PG	87
VE71389VE713GR91VE72291VE72890VE72890VE72890VE730R92VE730R92VE730R92VE730R92VE730R92VE730R92VE730R92VE730R92VE730R92VE730R92VE730R92VERULUT PATE CUT FOAM72VENICUT F XTREM CUT TOUCH72VENICUT393VENICUT3293VENICUT3293VENICUT3293VENICUT3293VENICUT3293VENICUT3493VENICUT3493VENICUT3493VENICUT42GN78VENICUT42GN78VENICUT4379VENICUT5078VENICUT5179VENICUT5279VENICUT53NO71VENICUT54BL79VENICUT5679VENICUT5679VENICUT57G371VENICUT5975VENICUT5971VENICUT5972VENICUT5972VENICUT5972VENICUT5972VENICUT5972VENICUT5972VENICUT54174VENICUT55172VENICUT55173VENICUT55173VENICUT55173VENICUT55173VENICUT55173 </td <td>VE702PN</td> <td>87</td>	VE702PN	87
VF715GR91VF72291VF72390VF72890VF72990VF730R102VF730R102VF730P103VF730P103VF730P103VF730P103VF730P103VF701D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D103VF702D104 <td>VE712GR</td> <td>91</td>	VE712GR	91
VE72291VE72890VE72890VE72990VE7300R102VE733102VE733102VE799103VENCICEAN VI34073VENCUT D HEAT 6 CUT FOAM76VENCUT T XTREM CUT73VENCUT T XTREM CUT TOUCH72VENCUT2083VENCUT3284VENCUT3284VENCUT3284VENCUT3284VENCUT3383VENCUT3478VENCUT44GN78VENCUT42GN78VENCUT5478VENCUT5478VENCUT5478VENCUT5579VENCUT5479VENCUT5479VENCUT5479VENCUT5479VENCUT5579VENCUT5579VENCUT5479VENCUT5579VENCUT5475VENCUT5579<	VE713	89
VE72890VE72790VE72890VE72990VE7300R102VE733102VE733102VE799103VENICLEAN VI34073VENICUT D HEAT 6 CUT FOAM76VENICUT T XTREM CUT73VENICUT 5 XTREM CUT TOUCH72VENICUT2083VENICUT3283VENICUT3283VENICUT3283VENICUT3283VENICUT3383VENICUT3478VENICUT36GR78VENICUT44QN78VENICUT5076VENICUT5178VENICUT5276VENICUT5379VENICUT54BL75VENICUT54BL76VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5476VENICUT5576VENICUT5476VENICUT5576VENICUT5476VENICUT5576VENICUT5476VENICUT5576VENICUT5576VENICUT5576 <t< td=""><td>VE715GR</td><td>91</td></t<>	VE715GR	91
NumberNumberVE72790VE72890VE72990VE7300R102VE733102VE733102VE733102VE733102VENICUT D HEAT 6 CUT FOAM76VENICUT D HEAT 6 CUT FOAM71VENICUT F XTREM CUT73VENICUT F XTREM CUT TOUCH72VENICUT3083VENICUT3280VENICUT3283VENICUT3283VENICUT3283VENICUT3483VENICUT3578VENICUT46M78VENICUT426N78VENICUT5276VENICUT5276VENICUT5379VENICUT54BL75VENICUT5579VENICUT5679VENICUT5975VENICUT5976VENICUT59<	VE722	91
VE72890VE72990VE7300R102VE733102VE733103VENCUEAN VI340123VENICUED HAT & CUT FOAM78VENICUT T KIREM CUT73VENICUT F XTREM CUT TOUCH83VENICUT2083VENICUT3280VENICUT3281VENICUT3283VENICUT3283VENICUT3283VENICUT3483VENICUT3483VENICUT3478VENICUT426N78VENICUT5276VENICUT5276VENICUT54BL76VENICUT54BL76VENICUT54BL76VENICUT5579VENICUT54BL76VENICUT59 <td>VE726</td> <td>90</td>	VE726	90
VE72890VE72990VE7300R102VE733102VE733103VENCUEAN VI340123VENICUED HAT & CUT FOAM78VENICUT T KIREM CUT73VENICUT F XTREM CUT TOUCH83VENICUT2083VENICUT3280VENICUT3281VENICUT3283VENICUT3283VENICUT3283VENICUT3483VENICUT3483VENICUT3478VENICUT426N78VENICUT5276VENICUT5276VENICUT54BL76VENICUT54BL76VENICUT54BL76VENICUT5579VENICUT54BL76VENICUT59 <td>VE727</td> <td>90</td>	VE727	90
VE72990VE7300R102VE733102VE733103VENICUEAN VI340123VENICUT D HEAT 6 CUT FOAM76VENICUT T KTREM CUT73VENICUT F XTREM CUT TOUCH72VENICUT2083VENICUT2280VENICUT3280VENICUT3281VENICUT3283VENICUT3281VENICUT3483VENICUT3483VENICUT36GR82VENICUT426N78VENICUT426N78VENICUT426N78VENICUT5076VENICUT5076VENICUT5076VENICUT5076VENICUT5076VENICUT5679VENICUT57G371VENICUT5975VENICU	VE728	90
VE7300R102VE733102VE799103VENICLEAN VI340123VENICLEAN VI34078VENICUT D HEAT 6 CUT FOAM78VENICUT T KTREM CUT73VENICUT F XTREM CUT TOUCH72VENICUT2083VENICUT3280VENICUT3283VENICUT3283VENICUT3283VENICUT3283VENICUT3478VENICUT36GR78VENICUT426N78VENICUT426N78VENICUT5076VENICUT5276VENICUT5379VENICUT54BL75VENICUT56379VENICUT576371VENICUT576371VENICUT576372VENICUT5975 <td>VE729</td> <td>90</td>	VE729	90
VE733102VE799103VENICLEAN VI340123VENICLT D HEAT 6 CUT FOAM76VENICUT T TAREM CUT71VENICUT F XTREM CUT TOUCH72VENICUT2083VENICUT3280VENICUT3280VENICUT3280VENICUT3281VENICUT3281VENICUT3283VENICUT3283VENICUT3483VENICUT36GR82VENICUT42GN78VENICUT42GN78VENICUT5076VENICUT5276VENICUT5276VENICUT5579VENICUT5679VENICUT5779VENICUT5879VENICUT5975VENIT	VF7300R	
VE799103VENICLEAN V1340123VENICLT D HEAT & CUT FOAM76VENICUT F XTREM CUT72VENICUT F XTREM CUT TOUCH72VENICUT2083VENICUT3083VENICUT3280VENICUT32 ESD84VENICUT3383VENICUT3483VENICUT36BR82VENICUT43078VENICUT43078VENICUT43078VENICUT43078VENICUT43078VENICUT43078VENICUT4379VENICUT4379VENICUT5076VENICUT5276VENICUT5379VENICUT5479VENICUT5579VENICUT5479VENICUT5579VENICUT5479VENICUT5579VENICUT5479VENICUT5579VENICUT5479VENICUT5579VENICUT5479VENICUT5579VENICUT5479VENICUT5579VENICUT5479VENICUT5579VENICUT5579VENICUT5471VENICUT5579VENICUT5579VENICUT5471VENICUT5579VENICUT5579VENICUT5471VENICUT5571VENICUT5472VENICUT5571VENICUT5572VENICUT5473		
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VENICUT47         78           VENICUT50         76           VENICUT52         76           VENICUT52         75           VENICUT53N0         75           VENICUT54BL         75           VENICUT55         79           VENICUT56         79           VENICUT56         77           VENICUT56         77           VENICUT56         77           VENICUT58         76           VENICUT59         75           VENICUT59         75           VENICUT59         75           VENICUT51         74           VENICUT52         75           VENICUT53         75           VENICUT54         74           VENICUT55         75           VENICUT54         76           VENICUT55         75           VENICUT54         76           VENICUT55         75           VENICUT55         76           VENICUT55         76           VENICUT54         76           VENICUT55         76           VENICUT55         76           VENICUT55         76           VENIT52         76 </td <td></td> <td></td>		
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VENICUT52         76           VENICUT53NO         75           VENICUT54BL         75           VENICUT55         79           VENICUT56         79           VENICUT56         79           VENICUT56         77           VENICUT57G3         77           VENICUT58         77           VENICUT59         75           VENICUT59         75           VENICUT54         79           VENICUT55         79           VENICUT59         75           VENICUT54         74           VENICUT55         79           VENICUT55         79           VENICUT54         74           VENICUT55         79           VENICUT55         79           VENICUT54         79           VENICUT55         79           VENICUT55         79           VENICUT55         79           VENICUT54         74           VENICUT55         79           VENICUT55         79           VENICUT55         79           VENIFULS V1303         120           VENITACTYL V130008100         121           VENITACTYL V140091		
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VENICUT54BL         75           VENICUT55         79           VENICUT56         79           VENICUT5703         77           VENICUT5703         77           VENICUT58         77           VENICUT59         75           VENICUT59         75           VENICUT59         75           VENICUT59         75           VENICUT59         74           VENICUT59         74           VENICUT59         74           VENICUT59         74           VENICUT59         74           VENIFUS         74           VENIFUS         74           VENIFUS V1303         122           VENIFUS V1303         122           VENIPLUS V1500         121           VENITACTYL V1300B100         121           VENITACTYL V1400B100         121           VENITACTYL V1400B100         121           VENIZETTE VE920         122           VENIZETTE VE920         122           VENIZETTE VE920         122           VENIZETTE VE920         124           VENIZETTE VE920         125           VENIZETTE VE920         124           VENIZETTE VE9		
VENICUTS5         79           VENICUTS5         79           VENICUTS6         79           VENICUTS703         77           VENICUTS703         77           VENICUTS8         77           VENICUTS9         75           VENICUTS9         75           VENICUTS9         75           VENICUTS9         74           VENICUTS1         74           VENIFISH VE990         112           VENIFISH VE990         122           VENIFISH VE990         122           VENIFILS VI500         120           VENIPLUS V1500         121           VENITACTYL V1300B100         121           VENITACTYL V13010         121           VENITACTYL V1400B100         121           VENITACTYL V1400B100         121           VENITACTYL V1450B100         121		
VENICUT56         79           VENICUT57G3         77           VENICUT57G3         77           VENICUT58         75           VENICUT59         75           VENICUT59 LIGHT PLUS         75           VENICUT54         74           VENICUT551         74           VENIFISH VE990         122           VENIFISH VE990         122           VENIPLUS V1383         122           VENIPLUS V1500         120           VENIPLUS V1500         121           VENITACTYL V1300B100         121           VENITACTYL V1400B100         121           VENITACTYL V1400B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         122           WET & DRY W636BL         89           XTREM HEAT TERK500         135		
VENICUT5763       77         VENICUT58       75         VENICUT59       75         VENICUT59 LIGHT PLUS       75         VENICUT50 LIGHT PLUS       79         VENICUT51       74         VENICUT51       74         VENIFISH VE990       122         VENIPLUS V1383       122         VENIPLUS V1500       120         VENIPLUS V1500       121         VENITACTYL V1300B100       121         VENITACTYL V1301       123         VENITACTYL V1400B100       121         VENITACTYL V1400B100       121         VENITACTYL V1450B100       121         VENITACTYL V150B100       121         VENITACTYL V150B100       121         VENITACTYL V150B100 <t< td=""><td></td><td></td></t<>		
VENICUT58         77           VENICUT58         75           VENICUT59         75           VENICUT59         75           VENICUT59         76           VENICUT59         75           VENICUT59         75           VENICUT5M         79           VENICUT5X1         74           VENIFISH VE990         112           VENIFISH VE990         122           VENIFISH VE990         120           VENIFISH VE990         120           VENIPR0 VE450         166           VENIPR0 VE450         121           VENITACTYL V1300B100         121           VENITACTYL V1400B100         121           VENITACTYL V1400B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET & DRY W636BL         89           XTREM HEAT TERK500         135		
VENICUT59         75           VENICUT59 LIGHT PLUS         75           VENICUT59 LIGHT PLUS         79           VENICUT5M         79           VENICUT5X1         74           VENIFISH VE990         122           VENIFISH VE990         122           VENIFISH VE990         120           VENIFISH VE990         120           VENIFISH VE990         121           VENIFISH VE990         123           VENIFIACTYL V1300B100         121           VENITACTYL V1371         123           VENITACTYL V1400B100         121           VENITACTYL V1400B100         121           VENITACTYL V1450B100         121           VENITACTYL V150B100         121           VENITACTYL V150B100         121           VENITACTYL V150B100         121           VENITACTYL V150B100         121		
VENICUT59 LIGHT PLUS         75           VENICUT5M         79           VENICUT5X1         74           VENIFISH VE990         112           VENIFISH VE990         122           VENIPLUS V1383         122           VENIPLUS V1383         122           VENIPLUS V1500         120           VENIPRO VE450         16           VENITACTYL V1300B100         121           VENITACTYL V1310         123           VENITACTYL V1300B100         121           VENITACTYL V1400B100         121           VENIZETTE VE920         122           WET & DRY VNG36BL         89           XTREM HEAT TERK500         135		
VENICUT5M         79           VENICUT5X1         74           VENIFISH VE990         112           VENIFISH VE990         122           VENIPLUS V1383         122           VENIPLUS V1383         122           VENIPLUS V1500         120           VENIPLUS V1500         121           VENITACTYL V1300B100         121           VENITACTYL V1310         123           VENITACTYL V1300B100         121           VENITACTYL V1400B100         121           VENITACTYL V150B100         121		
VENICUT5X1         74           VENIFISH VE990         112           VENIFISH VE990         122           VENIFISH VE990         120           VENIPLUS V1383         122           VENIPLUS V1300         120           VENIPRO VE450         116           VENITACTYL V1300B100         121           VENITACTYL V1310         123           VENITACTYL V13010         121           VENITACTYL V1400B100         121           VENITACTYL V1400B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         122           WET & DRY VN636BL         89           XTREM HEAT TERKS00         135		
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VENIPLUS V1383         122           VENIPLUS V1500         120           VENIPRO VE450         16           VENITACTYL V1300B100         121           VENITACTYL V1310         123           VENITACTYL V1371         123           VENITACTYL V1400B100         121           VENITACTYL V1400B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET & DRY W636BL         89           XTREM HEAT TERK500         135		
VENIPLUS V1500         120           VENIPRO VE450         116           VENITACTYL V1300B100         121           VENITACTYL V1301         123           VENITACTYL V1301         123           VENITACTYL V1301         121           VENITACTYL V1400B100         121           VENITACTYL V1450B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET & DRY VN636BL         89           XTREM HEAT TERK500         135		
VENIPRO VE450         116           VENITACTYL VI300B100         121           VENITACTYL VI3010         123           VENITACTYL VI3010         123           VENITACTYL VI3010         121           VENITACTYL V1400B100         121           VENITACTYL V1400B100         121           VENITACTYL V1450B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET & DRY VV636BL         89           XTREM HEAT TERK500         135		
VENITACTYL V1300B100         121           VENITACTYL V1310         123           VENITACTYL V1371         123           VENITACTYL V1400B100         121           VENITACTYL V1400PB100         121           VENITACTYL V1450B100         121           VENITACTYL V1450B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET & DRY VV636BL         89           XTREM HEAT TERK500         135		
VENITACTYL V1310         123           VENITACTYL V1371         123           VENITACTYL V1400B100         121           VENITACTYL V1400PB100         121           VENITACTYL V1450B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET & DRY VV636BL         89           XTREM HEAT TERK500         135		
VENITACTYL V1371         123           VENITACTYL V1400B100         121           VENITACTYL V1400PB100         121           VENITACTYL V1450B100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET 6 DRY VV636BL         89           XTREM HEAT TERK500         135		
VENITACTYL V1400B100         121           VENITACTYL V1400PB100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET 6 DRY VV636BL         89           XTREM HEAT TERK500         135		
VENITACTYL V1400PB100         121           VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET 6 DRY VV636BL         89           XTREM HEAT TERK500         135		
VENITACTYL V1450B100         121           VENIZETTE VE920         112           WET & DRY VV636BL         89           XTREM HEAT TERK500         135		
VENIZETTE VE920         112           WET & DRY VV636BL         89           XTREM HEAT TERK500         135		
WET 6 DRY VV636BL         89           XTREM HEAT TERK500         135		
XTREM HEAT TERK500 135		

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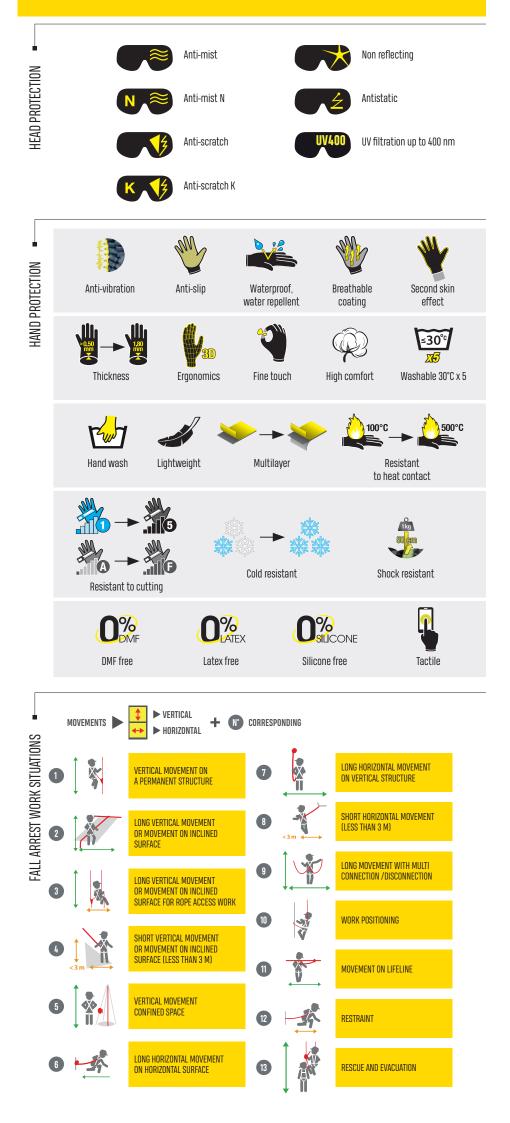
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