



SINGER[®] 
safety



Helmet :
FORCEW

Jacket :
VARNA

Trousers :
PUNA

Gloves :
PER134





Bump cap :
HG915N

Ear-bands :
HG11

Jacket :
VEROMO

Work trousers :
PRAGUE

Gloves :
NYM213NIF

Safety shoes :
GENES



Bump cap :
HG913B
Workwear :
COSTA
Gloves :
TKVS13

Bump cap :
HG913N
Polar jacket :
POLNOIR
Work trousers :
PRAGUE
Gloves :
NYMFIT00
Safety shoes :
BOCA



Safety spectacles :

EVAORAN

Softshell jacket :

VERNAM

Gloves :

PER100

Work jacket :

VAR

Gloves :

PER157



Welding mask :
MS1190

Protective hood :
PYROCAG

Gloves :
AGN106

Apron :
SOUDAT9070

Safety shoes :
ST280



Helmet :
FORCEJ

Parka :
PALAWA

Work bib pant :
SARY

Gloves :
PHD5NIF

Boots :
BORN



Helmet :
FORCEW

Safety spectacles :
EVARED

Softshell jacket :
VERNON

Gloves :
PHD5RED

Work trousers :
PITON

Boots :
GR40



Ear-muffs :
HG803G

Safety spectacles :
EVAMOUSS

Work jacket :
VENTOU

Work trousers:
PITON

Gloves :
NYMR15D

Safety shoes :
LAURO



Safety spectacles :
EVALOR

Polar jacket :
POLGO

Ear-muffs :
HG813G

Gloves :
NYM213NIF

Work trousers :
PRAGUE

Safety shoes :
BOCA

Polar jacket :
POLAINE

Gloves :
PHD5RED



Bump cap :
HG915N

Safety spectacles :
EVAORAN

Work jacket :
VAISON

Gloves :
PHD135PU



Safety spectacles :
EVARUN

Respiratory protection :
AUUM23V

Work jacket :
VERNAM

Gloves :
NL10





Rainwear :
VILO

Gloves :
NYMFIT02

Boots :
BORN



SINGER[®] 
safety



A family history

The story began over 100 years ago, in Saint Omer in northern France. Two brothers, Achille and Maurice Singer, invested in a tannery and began producing harnesses and accessories.

In the aftermath of the Second World War, the factory was in ruins. The bombing might have finished off the family business were it not for the entrepreneurial spirit of its second generation, who took the fate of the operation into their hands. Maurice's sons, Michel and Etienne, decided to invest in modern production tools to make protective gloves, mainly out of leather, to meet growing industry demand.

The story gathered pace in the 1970s as the two visionary brothers anticipated the changes that would gradually mark the global economy. This resolutely innovative strategic positioning enabled the company to design and manufacture new products, expand its offering and extend its influence over the global market. The 1990s saw the arrival of the third generation. The sons of Michel, Laurent and Patrick took over the management of the company, pursuing, strengthening and accelerating its development based on the values they held dear.

Values

Performance-focused ambition, promising respect with integrity guaranteed

Our taste for performance requires us to be very exacting. From product design to production, we leave nothing to chance. Our job is to ensure that every item of PPE is 100% compliant with the European standards by focusing on aesthetics, comfort, originality and modernity. The continuous improvement of our products is a central concern. Our mission is to offer the most demanding professionals ever more reliable, durable and safe products at competitive prices.

For three generations, this taste for performance has been guided by values of respect and integrity. We strive to establish close and lasting relationships with all our partners based on trust, consideration and openness. We strive to make clear and transparent information available to everyone. Our customers' satisfaction is our priority. Conscious of the importance of environmental issues, we seek to implement solutions adapted to sustainable development.

These three fundamental founding values have, for many years, allowed us to achieve our established goals of sustainability, informed growth and independence, to which we are deeply committed.

Organisation

Our 10,000 m² logistics platform, located at the heart of the port of Dunkirk, enables us to make over 8 million carefully selected and checked items permanently available to our distributor customers from all around the world.

We are totally in control of our operations and this, combined with the experience accumulated over generations, guarantees you genuine expertise and reliable, consistently high-quality products. Our competent, dynamic teams are attentive to your needs, ensuring a high level of responsiveness and optimum service.

S U M M A R Y

THE HEAD

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[**WIDE FIELD
OF VISION**]



Inside view



Removable foam



Without foam

EVAMOUSS

Pivoting temples. Anti-scratch and anti-fog polycarbonate clear lens. Lens with an easy removable foam, comfortable and practical.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



46g.

SINGER



EVALASTE

Same as EVAMOUSS
but with adjustable elastic headband.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



50g.

SINGER



EVAFOM

Anti-scratch and anti-fog clear polycarbonate lenses.
Lens with an easy removable foam, comfortable and practical. Very ergonomic shape providing and excellent protection. Bi-injected ventilated sidearms with slip resistant inserts. Slip resistant nose bridge.

EN 166 (F, optical class 1). EN 170 (2C-1,2)

 10x10  31g.

SINGER 

EVAFOMA

Same as EVAFOM
but with smoked lens, black and orange colour.

EN 166 (FT, optical class 1). EN 172 (5-2)

 10x10  31g.

SINGER 





**[INNOVATION RESISTANCE
AND LIGHT WEIGHT]**



EVARUN

Metallic-silver painted polycarbonate frame offers lightweight and durability. Single piece clear polycarbonate curved (7°) lens. TPR + polycarbonate temples. Anti-scratch lenses treatment.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



27g.

SINGER



EVARUNA

Same as EVARUN but with smoke lenses.

EN 166 (FT, optical class 1). EN 172 (5-3,1)



10x10



27g.

SINGER



[INCREDIBLY LIGHTWEIGHT]



EVALOR

Thin bi-injected sidearms with slip-resistant inserts. Gloss finish frame and temples. Anti-scratch and anti-fog curved polycarbonate clear lenses. Slip resistant nose bridge. Fits with perfection the shape of the face for an excellent protection. Stylish design.

EN 166 (F, optical class 1). EN 170 (2C-1,2)

 10x10  22g. 

SINGER 

EVALORA

Same as EVALOR but with smoke lenses.

EN 166 (F, optical class 1). EN 172 (5-3,1)



 10x10  22g.  **SINGER** 

**EVATREND**

Sunglasses. UV Resistance (**UV 400**). Slim polycarbonate temples. Silver mirror lens. Anti-fog and anti-scratch treatment. Slip resistant insert on temples and nose bridge. Lenses thickness : 2.20 mm.

EN 166 (F, optical class 1). EN 172 (5-1.7)



10x10



24g.

SINGER 

EVASHARK SERIES

EVASHARKGCA

Adjustable sidearms (4 positions). Anti-scratch and anti-fog treated clear polycarbonate lenses. Grey frame. Perforated temples for adjustable cord (ACCCORD2N).

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



31g.


SINGER
EVASHARKBBA

Same as EVASHARKGCA but with metallic blue frame and fashionable blue smoke mirror lenses.

EN 166 (FT, optical class 1). EN 172 (5-3,1). ISO12312-1. Class 3



10x10



31g.

SINGER

EVASHARKMSA

Same as EVASHARKGCA but with metallic brown frame and smoke lenses.

EN 166 (FT, optical class 1). EN 172 (5-2).



10x10



31g.

SINGER

EVASHARKNJA

Same as EVASHARKGCA but with black frame and amber coated lenses.

EN 166 (FT, optical class 1). EN 170 (2C-1,2).



10x10



31g.

SINGER

EVASHARKNGA

Same as EVASHARKGCA but with black frame and green lenses.

EN 166 (FT, optical class 1). EN 170 (2C-1,7).



10x10



31g.

SINGER


**[CAN BE WORK OVER
PRESCRIPTION LENSES]**



EVA07

Overspectacles made up of one piece wide clear antiscratch polycarbonate lens with protective side-shields. Pivoting frame and adjustable blue temples length. Perforated temples for adjustable cord (ACCCORD2N). Can be worn over most of prescription lenses.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



34g.

SINGER



EVALUNABE

Soft clear PVC nose bridge. Polyamide frame. Anti-slip sidearms. Anti-scratch and anti-fog clear polycarbonate lenses.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



29g.

SINGER

[EVA86 SERIES]



EVA86AB - Anti-fog lens

EVA86 - Not anti-fog lens

One piece panoramic lens. Adjustable polyamide sidearms. Anti-scratch lens. Clean lens.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



27g.

SINGER



EVA86ABB

Same as EVA86 but with blue anti-fog lens

EN 166 (FT, optical class 1). EN 170 (2C-1,7)



10x10



27g.

SINGER

EVA83ABB

Clear polycarbonate anti-scratch and anti-fog lens. 100% polycarbonate. No metallic parts.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



28g.

SINGER

**100% POLYCARBONATE
METAL FREE**



EVASAND

One piece wide clear anti-scratch polycarbonate lens with protective side-shields. Pivoting frame and adjustable grey temples length. Comfortable nose pad.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



29g.

SINGER

**PIVOTING AND
ADJUSTABLE FRAME**



EVARED

Single piece clear polycarbonate curved (9°) lens. TPR + polycarbonate lens. Red and black colour. Molded-in nose bridge. Anti-scratch treatment. Perforated temples for adjustable cord (ACCORD2N).

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



24g.

SINGER

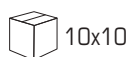
VERY ENVELOPING



EVAORAN

Same as EVARED but orange and black colour.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



24g.

SINGER





[**INCREDIBLY LIGHTWEIGHT**]



EVALIT

Clear one piece polycarbonate anti-fog and anti-scratch lens. Wraparound shape for perfect protection. Black ventilated temples.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



EVASUD

Clear one piece polycarbonate anti-scratch lens.

Clear sideshields incorporated in the sidearms for a perfect protection. Perforated temples for adjustable cord. (ACCCORD2N).

EN 166 (FT, optical class 1). EN 170 (2C-1,2)

 10x10  24g.  **SINGER** 



EVAMED

One piece polycarbonate clear lens.

Sideshields incorporated in the sidearms. Very thin and lightweight safety spectacles.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)

 10x10  24g. 



EVASUN

One piece polycarbonate smoke lens.

Sideshields incorporated in the sidearms. Very thin and lightweight safety spectacles.

EN 166 (FT, optical class 1). EN 172 (5-3,1)

 10x10  24g. 



[**PIVOTING
FRAME**]**EVALANKA**

Pivoting black polyamide frame. Adjustable black temple length. Clear polycarbonate lens integrating the sideshields for a perfect protection. Clear anti-scratch polycarbonate. Perforated temples for adjustable cord.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



34g.



SINGER



EVASPORTB - Blue colour

EVASPORTN - Black colour

EVASPORTNAB - Black colour & Anti-fog lens

Length adjustable temples. Polyamide frame. Polycarbonate lens integrating the sideshields for a perfect protection. Clear anti-scratch polycarbonate. Perforated temples for adjustable cord.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



34g.



SINGER

[**EVASTAR SERIES**]**EVASTAR**

Visitor spectacles with large ventilated sidearms. No metallic parts (100% polycarbonate). Sideshields integrated in the sidearms. Perforated temples for adjustable cord.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



44g.



SINGER

[**100 % POLYCARBONATE**]**EVALAB**

Protection spectacles – visitor style with large ventilated sidearms. Lenses and frame in clear polycarbonate. Lenses thickness: 2.00 mm. Perforated temples for adjustable cord.

EN 166 (FT, optical class 1). EN 170 (2C-1,2)



10x10



27g.

Prosur



ACCVIC317.

Clear spare polycarbonate lenses for EVA317. EN166. Per 25 pairs.



EVA317

Traditional spectacles. Lateral folding sideshields. Polyamide frame. Clear polycarbonate lens removable with screw. Spare lenses available.

EN 166 (S, optical class 1)

 20x1  31g.



ACCTISSN

Lens cleaning tissue in polyester 15 x 15 cm. Black colour.



ACCCORD2N

Elastic round cord for spectacles. Adjustable length. Clip connectors. Very easy to connect on eyewear with perforated temples. Black colour. 33,5 cm x 2 mm. (EVASPORT, EVASTAR, EVASHARK, EVA07, EVARED, EVALOR, EVALORA, EVALAB, EVASUD).

 x10 **SINGER®** 


 x10

SINGER® 



ACCCORD3N

Elastic round cord for spectacles. Adjustable length. Loop connectors. Black colour. 32 cm x 2,30 mm.


 x10

SINGER® 



ACCCORD4

Elastic flat cord for spectacles. Adjustable length. Elastomer slip-resistant loop connectors. Black colour. 28 cm x 1,00 cm.

 x10

SINGER® 




ACCETUI2

Black soft synthetic case for spectacles. Keep your equipment away from dust.



ACCETUI

Black synthetic case for spectacles. Clip belt attachment. Keep your equipment away from dust scratch and impact.

 x10

SINGER® 



ACCETUI3

Strong Eva case for spectacles. Dark colour. With zipper closing, hook and belt loop.

 x10

SINGER® 



[**WIDE FIELD
OF VISION**]



EVAGUARD

Quality safety goggle. P.V.C frame. Unvented. Panoramic clear anti-scratch and anti-fog polycarbonate curved lens. Lens thickness: 2.30 mm. Quick adjustable elastic headband. The wide peripheral vision provides high levels of comfort and maximum protection. Can be fitted with the visor ACCGUARD to form a complete face protection.

EN 166 (BT, 3, 4, 5, optical class 1), EN 170 (2C-1,2)



6x10



110g.



ACCGUARD

Protective visor to fix on the EVAGUARD goggle.

EN166, (BT)



10x10



60g.



[**INSIDE ACETATE LENS**]



EVASAFE

Premium safety google. Unvented. With UV protection. Lenses : double safety clear lenses. Inside anti-fog acetate lens 0.50 mm (marking N). Outside anti-scratch polycarbonate lens 2.30 mm (marking K).

Body : soft and comfortable elastomere. Neoprene elastic headband. Wide edge and comfortable nose bridge.

EN 166 (BT, 3, 4, 5, 9, K, N, optical class 1) EN 170 (2C-1,2)



12x6



143g.

SINGER

[**COMFORT FOAM
ON THE MASK EDGE**]



EVAFLEX

Black TPU frame. Soft foam seal all around the mask edge for a high level of comfort and a perfect fit. Wide easy adjustable headband. Curved clear lens with anti-scratch and anti-fog treatment. Can be worn over most of prescription lenses.

EN 166 (BT, 3, 4, 5, optical class 1),
EN 170 (2-1,2)

9x6 125g.

SINGER

[**BI-INJECTION
POLYPROPYLENE - SANTOPRENE™**]



EVACANA

Original model featuring a super wide lens for an excellent panoramic vision. Dual injected soft frame with pressure free fit tight seal design. Anti-scratch and anti-fog clear polycarbonate screen. Large and easy adjustable elastic headband. Fits over most prescription lenses.

EN 166 (BT, 3, 9, N, optical class 1)

10x10 83g.

SINGER

[**CURVED SHAPE**]



EVA03

PVC frame with direct ventilation. Clear panoramic anti-scratch and anti-fog polycarbonate curved lens. Enhanced peripheral vision. Quick adjustable elastic headband provides fast, comfortable and easy fit for all wearers.

EN 166 (BT, 3, 4, 9, optical class 1)

10x10 90g.

SINGER

EVAPRO

PVC frame with 4 caps vents. Quick adjustable elastic headband provides fast, comfortable and easy fit for all wearers. Clear panoramic anti-scratch and anti-fog polycarbonate lens. Can be worn over prescription lenses.

EN 166 (BT, 3, 4, 9, optical class 1)

10x10 120g. **SINGER**

[LIQUID SPLASH PROTECTION]



[STANDARD]

EVARIO

PVC frame with 4 cap vents. Adjustable headband. Clear anti-scratch and anti-fog polycarbonate lens.

EN 166 (BT, 3, 4, 9, optical class 1)

10x10 76g. **SINGER**



[STANDARD]

EVAMAS

Soft PVC frame with direct ventilation. Adjustable headband. Clear polycarbonate lens.

EN 166 (BT, 4, 9, optical class 1)

10x10 81g. **SINGER**



**EVA317N5**

Length adjustable polyamide temples.
Smoke polycarbonate lens and sideshields.

EN 166 (FT, optical class 1), EN 175,
EN 169 (scale n° 5), EN 171 (scale n° 4-5)

 10x10

 34g.

SINGER 

**EVA317N3**

Length adjustable polyamide temples.
Smoke polycarbonate lens and sideshields.

EN 166 (FT, optical class 1), EN 175, EN 169 (scale n°3)

 10x10

 34g.

SINGER 

**EVA317N5**

Traditional spectacles. Lateral folding
sideshields. Polyamide frame. Green
adiacticinic glass lenses, DIN 5 (solely
to be used for protection against the
optical rays produced by flame welding).

EN 166 (optical class 2),
EN 175, EN 169 (scale n°5)

 20x1

 55g.

ACCVD5/317.

Shade 5 spare
lenses for
EVA317N5. EN169.
Per 25 pairs.

**[METAL
FREE]**

**EVA317N5**

Visitor style with large ventilated smoke polycarbonate
sidearms. One piece polycarbonate smoke lens.

EN 166 (FT, optical class 1), EN 175,
EN 169 (scale n°5), EN 171 (scale n°4-5)

 10x10

 44g.

SINGER 

**LUN225**

PVC frame with 4 cap vents. Black lens holder in polycarbonate
equipped with fixed clear polycarbonate lenses and flip-up
glass lenses scale number 5 with polycarbonate cover lenses.
Adjustable headband.

EN 166, EN 175, EN 169 (scale n°5)

 10x12

 140g.

**ACC1190E2**

Spare front clear
visor for MS1190

 30x10



Inside view

MS1190

Opto-electronic welding hood. Moulded in rigid high-strength black polypropylene. A clear PC protective cover lens is secured to the front and rear frames. The frontal viewing window is equipped with a solar cell and filter for welding operations, in shades 4/9-13 (fixed shade 4, automatically variable shade ranging from 9 to 13). Response time 1/25,000 s. Interior field of vision 92 x 42 mm. Dimensions of filter 110 mm x 90 mm x 9 mm. 2 sensors.

EN 166, EN 175, EN 379

 6x1

SINGER 

**EVA300**

Polypropylene welding hood equipped with a headgear and a flip-up window. To be used with specific lenses (sold separately).

EN 175

 10x1

SINGER 

**SMOKE
(SPECIAL WELDING)**

Welding Protane®
mineral glass
screens 108 x 51 mm.
To use with EVA300.

CLEAR


ACCVMI900

Mineral glass
105 x 50mm

ACCVP10550

Polycarbonate
108 x 51 mm

EN 169

 x100

SMOKE

ACCVP13900

Scale n° 13

ACCVP11900

Scale n° 11

ACCVP10900

Scale n° 10



[**FACE SHIELD
WITH EAR-MUFFS**]



HG825L

Spare mesh visor
(385 x 195 mm).

EN 1731.

 20x10

HG925N

Forest kit which includes a black polypropylene browguard (HG900) with ratchet headgear, ear-muffs (HG106J) and a large mesh visor HG825L (385 x 195 mm). Delivered dismantled.

EN 1731, EN 352-1

 30x1


ACC825

Spare mesh visor
(305 x 195 mm).

EN1731


EVA825

Features a yellow impact brow protector with ratchet headgear and a stainless steel mesh swivel-up visor (305 x 195 mm).

EN 1731 F



SINGER



ACC805 305 x 190 mm.

ACC805LARG 395 x 200 mm.

Spare polycarbonate
visor

EN 166


EVA805

Features a yellow impact brow protector with ratchet headgear and a clear swivel-up polycarbonate visor (305 x 190 mm). Thickness: 1.00 mm.

EN 166 (B, optical class 1)



SINGER

**FORCECAL**

Blue protective browguard with ratchet headgear. Front sweatband and back comfort foam pad. Tested against the short circuit electric arc (Mark «8»). To be used with the visors FORCE805, ACC930CL or ACC930TL. (ACC930CL and ACC930TL are not tested against the short circuit electric arc).

EN 166 (3, 8, 9, BT). EN 1731



10x1

SINGER

**[TESTED AGAINST
THE SHORT CIRCUIT
ELECTRIC ARC (MARK «8»).**

**FORCE805**

Clear polycarbonate
spherical visor.
(400 x 205 mm).

Thickness: 2.00 mm.

EN 166 (3, 8, 9, BT, optical
class 1) EN 170 (2-1,2).



50x1

**ACC930CL**

Clear polycarbonate
spherical visor.
(400 x 225 mm).

Thickness: 2.00 mm.

EN 166 (BT, optical class 1).
EN 170 (2-1,2).



50x1

**ACC930TL**

Smoke polycarbonate
spherical visor.
(400 x 225 mm).

Thickness: 2.00 mm.

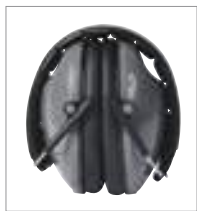
EN 166 (BT, optical class 1).
EN 172 (5-3,1).



50x1





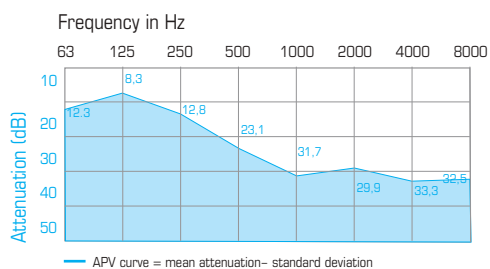


**[LIGHT WEIGHT AND
SUPER COMPACT]**

HG803G

Light weight ear-muffs. Foldable and super compact. Grey adjustable cups. Gloss finishing. Headband equipped with comfortable cushions. Black highly comfortable cushions. High density inside foam.

Packed under individual blister.



SNR 26,3dB (H:31,8dB M:23,6dB L:14,9dB). EN 352-1



6x8



174g.

SINGER

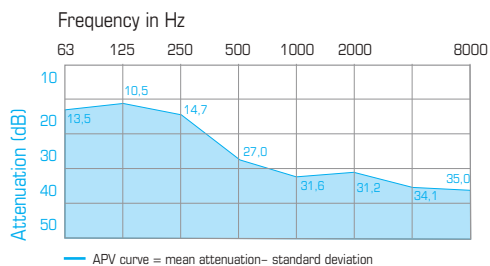


**[VERY LIGHT WEIGHT
AND ERGONOMIC]**

HG813G

Light weight ear-muffs. Grey adjustable cups. Gloss finishing. Headband equipped with a comfortable cushion. Black highly comfortable cushions. High density inside foam.

Packed under individual box.



SNR 28dB (H:33dB M:26dB L:17dB). EN 352-1



24x1



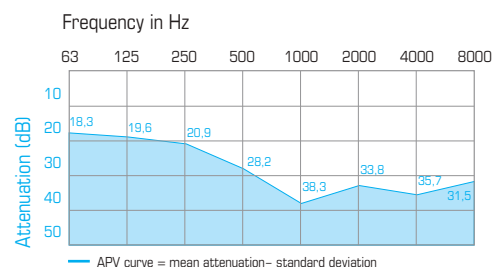
156g.

SINGER



**HG107PNR**

Compact and foldable ear-muffs. Foldable design, easy to store. Maximum protection. Soft and comfortable foam on headband.



SNR 33dB (H:34dB M:31dB L:24dB). EN 352-1



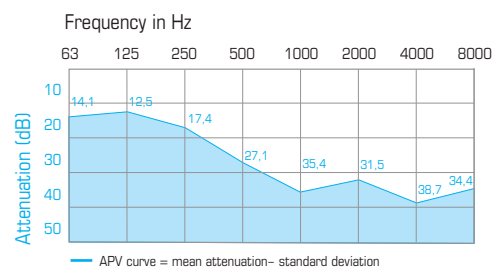
6x10



297g.

SINGER **HG106PNR**

Compact and foldable ear-muffs. Foldable design, easy to store. Soft and comfortable foam on headband.



SNR 30dB (H:34dB M:28dB L:19dB). EN 352-1



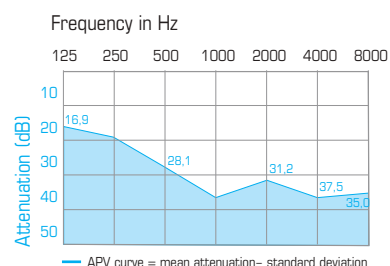
6x10



270g.

SINGER **HG105NR**

Very comfortable ear-muffs. Soft and comfortable foam on headband.



SNR 32dB (H:34dB M:30dB L:23dB). EN 352-1



6x10

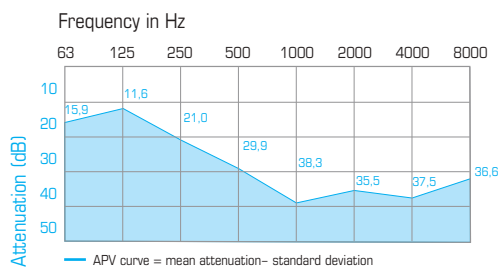


226g.

SINGER

CASBRUI

Light weight ear-muffs. Red cups adjustable on headband. Equipped with black comfortable cushions.



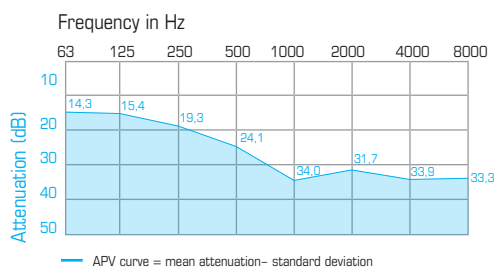
SNR 29dB (H:33dB M:27dB L:17dB). EN 352-1

6x10 145g. **SINGER**



CASBRUITPC

Compact and foldable ear-muffs. Very easy to store. Red cup equipped with black comfortable cushions.



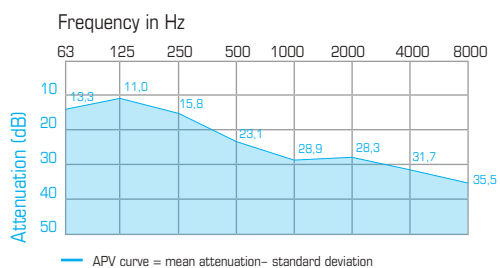
SNR 30,4dB (H:33,0dB M:27,8dB L:21,3dB) EN 352-1

6x10 257g. **SINGER**



HG106J

Light weight ear-muffs. Yellow cups adjustable on headband. Headband equipped with black comfortable cushions. Soft and comfortable cushion on headband.



SNR 27,6dB (H:30,4dB M:24,9dB L:17,7dB). EN 352-1

6x10 168g. **SINGER**



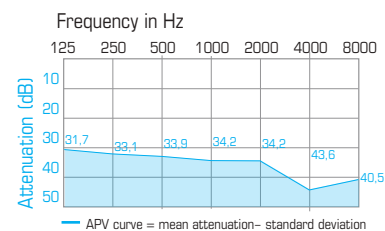
**HGBDTC**

Corded detectable ear-plugs. Soft and comfortable. In polyurethane. Corded. Conical shape for easy insertion. Single use. Blue colour. Display boxes of 200 pairs. Each pair under individual polybag.

SNR 37dB (H:36dB M:35dB L:34dB). EN 352-2



10x1



SINGER

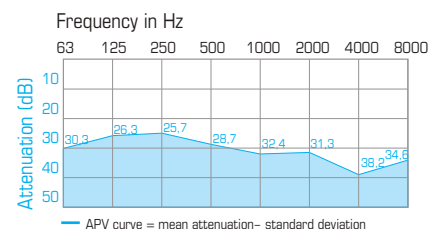
**HGB030** - Uncorded.**HGB030C** - Corded

Orange soft PU foam ear-plugs. Disposable. Conical shape for easy insertion. Smooth outer surface for better hygiene. Display boxes of 200 pairs. Each pair under individual polybag.

SNR 34dB (H:33dB M:31dB L:28dB). EN 352-2



10x1



SINGER

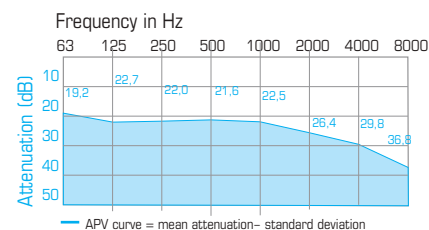
**HGB250C**

3 rings, orange TPR (thermoplastic rubber) corded ear-plugs. Display boxes of 200 pairs. Re-usable. Each pair under individual polybag.

SNR 27dB (H:27dB M:23dB L:23dB). EN 352-2



10x1



SINGER

**RECB01**

Ear-plugs refill. Model HGB030. **1000 pieces.**



10x1

**DISTB**

Ear-plugs dispenser. Catch basin prevents earplugs from falling to the ground.

Delivered without ear-plugs



4x1

SINGER



HGB20

Ear-plugs in box of 20 pieces



SINGER



BTB02

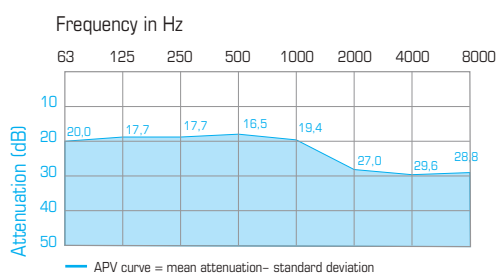
For perfect hygiene keep your ear-plugs in a clean area, away from dust. You will find this small belt clip-up box very useful.
Delivered without ear-plugs.



SINGER

HG11

Black foldable and re-usable PP headband.
With single use orange PU ear-plugs. Size M.



Passes under the chin.
SNR 24dB (H:26dB M:20dB L:18dB). EN 352-2



SINGER



Re-usable (Headband)



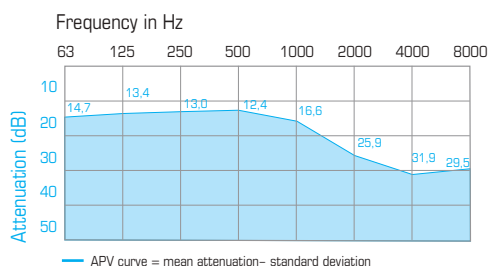
HG11RB

Spare orange ear-plugs for HG11.
Single use.
200 pairs.

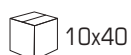


HG548NJ

Re-usable black plastic headband.
Yellow polyurethane ear-plugs (Single use).
Sizes: S, M, L.



Passes under the chin.
SNR 21dB (H:24dB M:16dB L:14dB). EN 352-2



SINGER



Re-usable (Headband)



HG548NJR

Spare yellow ear-plugs for HG548NJ.
Single use.
1000 pieces.





**[AVAILABLE IN
MANY COLOURS]**



FORCEB



FORCEJ



FORCEO



**[VENTILATED
VERSION]**

FORCEW

In ABS, 8 points suspension ; web suspension. PE headgear with ratchet easy system adjustment. 53-66 cm. Back comfort foam pad. Front sweatband. Delivered preassembled. **With optional test: Tested at low temperatures: - 30°C.**

EN 397



SINGER



FORCE2B



FORCE2O



**[UNVENTILATED
VERSION]**



Inside view

FORCE2W

Same as FORCE but with optional tests:
Tested at low temperatures: -30°C.
Electrical isolation 440 V. Melting metal
projection « MM ». **Class 0. (1000 V c.a.).**

EN 397, EN 50365



SINGER

All the accessories are suitable for the FORCE, FORCE2, ALPIN et ALPIN2.

**ACCBFORCE**

Spare front sweatband.



10x10



[26dB]

FORCE107

Ear-muffs.

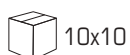
EN 352-3. SNR 26dB (H: 28 M: 24 L: 17).



20x1

**FORCEJUG**

Chin strap. In textile and plastic.



10x10

**ACC825**

Spare mesh visor. 305x195 mm.

EN 1731



200x1

**FORCESUP**

Face shield holder. To be used with adaptors (FORCEACC) or without adaptors in case of use of ear-muffs.

EN 166.



10x1

**FORCEACC**

Set of 2 adaptors to fix the face shield holder FORCESUP on helmet. Not required in case of combined use of a visor with ear-muffs.



10x1



ACC805 305 x 190 mm.

ACC805LARG 395 x 200 mm.

Spare clear polycarbonate visors.

EN 166



200x1

**FORCE805**

Spare clear polycarbonate spherical visor. (400 x 205 mm).

Thickness 2.00 mm.

EN 166 (3, 8, 9, BT, optical class 1) EN 170 (2-1,2).

TESTED AGAINST
THE SHORT CIRCUIT
ELECTRIC ARC
(MARK «8»)



50x1

**ACC930TL**

Spare smoke polycarbonate spherical visor. (400 x 225 mm)

Thickness: 2.00 mm.

EN 166 (BT, optical class 1).
EN 172 (5-3,1).



50x1

**ACC930CL**

Spare clear polycarbonate spherical visor. (400 x 225 mm)

Thickness: 2.00 mm

EN 166 (BT, optical class 1).
EN 170 (2-1,2).



50x1



CASIRISJAU2 / CASIRISROU2 / CASIRISBLE2 / CASIRISOR2 / CASIRISVER2



CAS5RSY / CAS5RSR / CAS5RSB / CAS5RSO / CAS5RSV



CASJAUNE / CASROUGE / CASBLEU / CASORANGE / CASVERT



LUNIRIS2

Spare glasses

EN 166/EN 170.

 10x1

CASIRISBL2

Polyamide working helmet IRIS2 with flip-up spectacle. Adjustable ventilation. Ratchet adjustment.

EN 397, EN 166, EN 170

 20x1

**[AVAILABLE IN
MANY COLOURS]**

CAS5RSW

Polyethylene. 6 points web suspension with front sweatband. Manual adjustment headgear. Delivered dismantled.

EN 397

 60x1  317g.

**[AVAILABLE IN
MANY COLOURS]**

CASBLANC

In polyethylene with ventilation.

EN 397

 25x1  350g.

HG902W

White colour. In ABS, 4 points suspension.
PE headgear with ratchet easy system
adjustment. Front sweatband. Back
comfort foam pad. Delivered dismantled.

EN 397



40x1

SINGER

**ACC805LARG**

Polycarbonate Visor. For use
with the adaptor HG18 and the
face shield holder HG867.

EN 166.



200x1

**HG825L**

Mesh visors. For use with the
adaptor HG18 and the face
shield holder HG867.

EN 1731.



20x10

**HG03N**

Chin strap.
In textile and
plastic.



20x50



[23dB]

HG187

Ear-muffs yellow and black colour.
Perfect fit and very comfortable. 261 g.

EN 352-3.SNR 23dB (H: 28 M: 20 L: 12).



60x1

**HG867**

Visor holder.
Delivered with the
adaptor HG18.



6x10

**HG18**

2 adaptors are required to fix the face
shield holder HG867. (not required in
case of combined use of
visor/ear-muffs). Sold per piece.



300x1





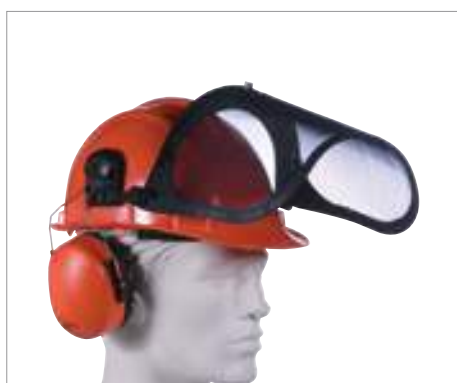
**FOREST1**

Includes: FORCE20 in orange colour; FORCE107 ear-muffs; FORCESUP visor holder and a mesh visor.
Delivered dismantled in one box.

EN 397, EN 352-3, EN 1731.



SINGER

**HGCF01**

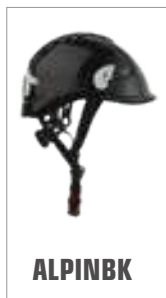
This forest helmet includes the safety helmet HG9020, ear-muffs HG1670, face shield holder HG867 and mesh visor HG825L.

EN 397, EN 1731, EN 352-3.



SINGER



**ALPINJ****ALPINO****ALPINBK****ALPINW**

High resistant polycarbonate shell. 8 points textile suspension harness. This harness is adjustable in two different positions, high or low, and features a holding plate for a perfect fit. **Plastic headgear** with convenient ratchet adjustment. Comfortable foam pad at the rear of the headgear. Front comfortable sweatband. 4 points woven chin strap with plastic buckle. 4 external headlamp clips on shell. Delivered preassembled. Optional test: tested a low temperature - 30°C.

EN 397



4x5

SINGER **[VENTILATED
VERSION]****ALPINW2**

Same as ALPIN but unventilated version.

EN 397



4x5

SINGER **[UNVENTILATED
VERSION]****LUNKARA**

Safety glasses suitable for the helmet CAS7001.



10x1

CAS7001

Safety helmet with short visor. Ventilated moulded shell in A.B.S. 4 point textile suspension and low density polyethylene headgear with adjustable ratchet system (53 to 63 cm). Equipped with woven chin strap with plastic buckle, **for working at height**. White colour.

EN 397



x1

**[HELMET FOR
WORKING AT
HEIGHT]**

**LP330FB**

To be used alone or with Alpin helmet. Adjustable head-strap system to wear directly on head. Ultra-compact and light weight. Water-resistant. LED/XENON. 4 positions. Uses 3 batteries (1.5 V AAA) (included).

**SINGER** **LP1013**

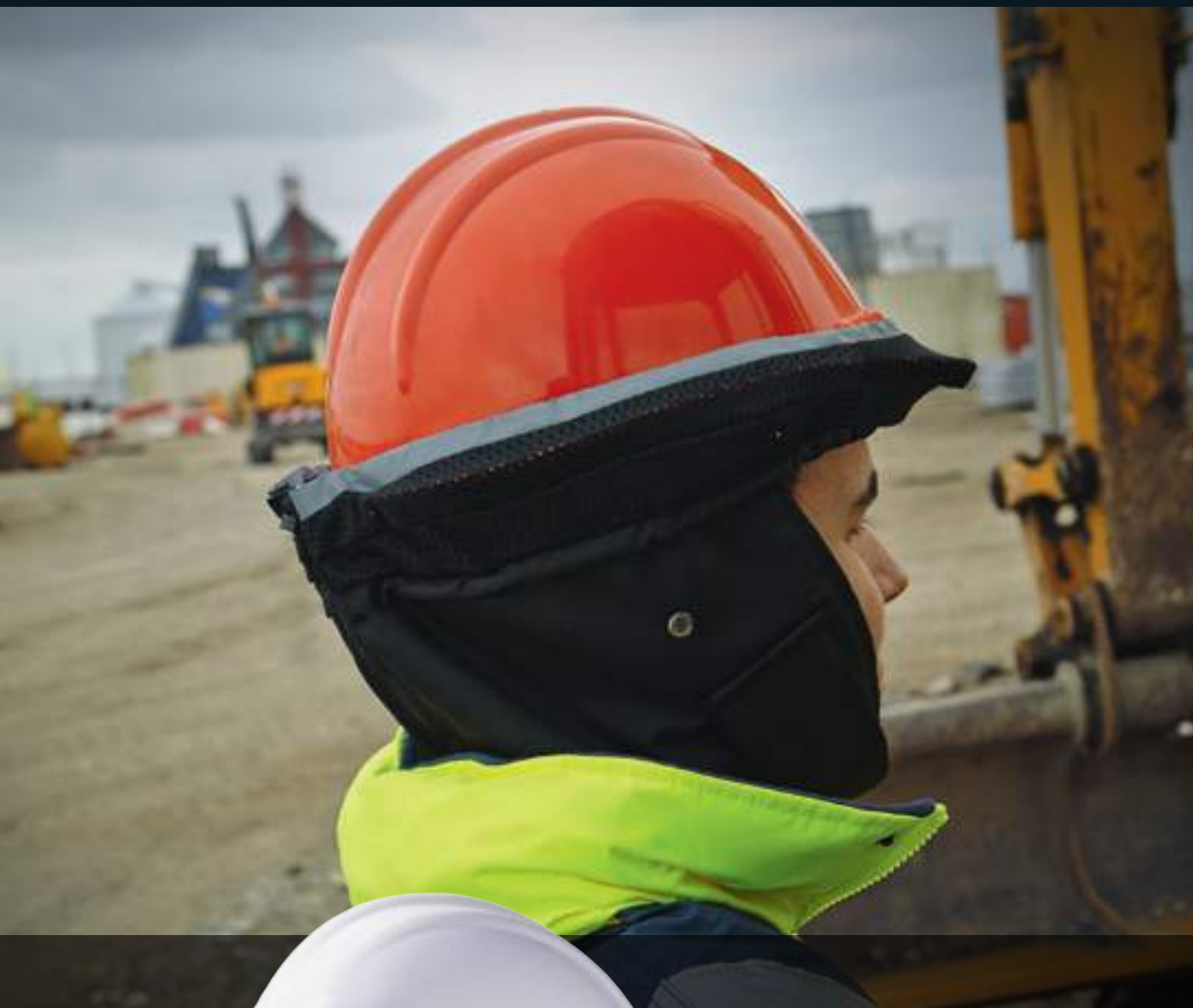
Light source: LED 1 W OSRAM. Lumens: 80 lm. Run time: 14 hrs 55 mins. Power source: 4 batteries AA type (no included). Dimensions: 175 x 45 x 45 mm. Weight: 105 g (w/o batteries). Beam distance: 122 m. Waterproof: 1 m. IP67. Rubber on/off button at the end of the lamp. Colour: black/yellow.

EX II 1G Ex ia IIC T4 (certified by Demko)

**SINGER** **ACC1013**

The plastic clip can be used to clip the LP1013 torch on most of helmets.

**SINGER** 



[CAP AGAINST
COLD]

BREVA

Cap against cold for industrial helmets. Inside in Polar fleece polyester. Black colour.



HG915N
Black colour

HG915B

Blue colour. Made of moulded A.B.S shell covered with a coloured cotton fabric cap. Front peak. Self grip fastening at the back. Large side ventilation. Inside foam pad for wearer comfort and protection. 85% cotton / 15% polyester.

EN 812.



HG916B

Same as HG915B but with short peak (3 cm).
85% cotton / 15% polyester. Blue colour.

EN 812.



SINGER

**HG9130**

Blue colour. Made of moulded A.B.S shell covered with a coloured cotton fabric cap. Front peak. Self grip fastening at the back. Ventilated on both sides. Inside foam pad for wearer comfort and protection 100% cotton.

(65% cotton / 35% polyester for HG913HV)

EN 812.



SINGER

**HG914B**

Same as HG913B but with a short peak (3 cm).
100% cotton. Blue colour.

EN 812.



SINGER



**[SHORT
PEAK]**

BE CAREFUL IMPORTANT NOTICE!
THIS PRODUCT IS NOT AN INDUSTRIAL SAFETY HELMET.

**SAGA**

Hood. Composition: 47,5% Modal®, 47,5% cotton, 5% Spandex. 200 gsm.
Modal® is a registered trademark from Lenzing AG company.



10x1



One size only

SINGER **SIRAC**

Neck cover. Composition: 47,5% Modal®, 47,5% cotton, 5% Spandex. 200 gsm.
Modal® is a registered trademark from Lenzing AG company.



10x1



One size only

SINGER 

BONABL - Blue colour / **BONTHB** - Thinsulate® lined

BONOI - Black colour / **BONTHN** - Thinsulate® lined

Acrylic knitted. One size only.



10x10

SINGER **PASMONABL**

Acrylic. Knitted. With peak. Single size only.
Navy blue colour.



10x10

**CAFPOLA**

Polyamide. Padded.
Ear and neck protection in Polar polyester lining.
Adjustable chin strap. One size fits all. Blue colour.



10x10

SINGER

SOUDAC

Split leather hood. Front opening with 3 press studs under leather flap. Large leather flap covering the shoulders. Sewn with aramid yarn.



EN ISO11611 (Class 1/2 A1)



Prosur

**PYROCAG**

Fire retardant protective hood. Fabric in 350 gsm. 98% cotton, 2% antistatic material (carbon). Large flap covering the shoulders. Adjustment with hook-and-loop flap. Original system of hook-and-loops straps on top of the hood for convenient adjustment on welding hood. Blue colour.



EN ISO11611 (Class 1 A1+A2)

EN ISO11612 (Class A1+A2 B1 C1 E1), EN 1149-5



SINGER

**COTCAG**

Neck protection and drawstrings adjustment. No permanent flame retardant cotton fabric.



SINGER

**CAP**

Cap made of cotton. Adjustment in the back. Black colour.



SINGER





DM756S

Silicone half-mask. Double support system made from a harness attached to the top and back of the head plus an elastic band. Exhalation valve for better breathing. Twin filter respirator made of rubber (filters sold separately).

EN 140



DM756C

Same as DM756S but made of rubber
EN 140



References	Type of filters EN 14387 and/or EN 143 For DM756C, DM756S and MP732S	
755A1	A1 filter	Ⓢ
755A1P3	A1P3 filter	Ⓢ
755ABEK1	ABEK1 filter	Ⓢ
755ABEK1P3	ABEK1P3 filter	Ⓢ
755P3	P3 filter	Ⓢ





[RUBBER]

DM761C

Single filter respirator made of natural rubber (filter sold separately). Double support system made of a harness attached to the top and back of the head plus an elastic band. Exhalation valves for better breathing.

EN 140



References	Type of filters EN 14387 or EN 143 for DM761C
760A1	A1 filter
760ABEK1	ABEK1 filter





Technical data

These filters are classified in types and classes according to the use and the filtering capacity.

EN 136: Respiratory protective devices. Full face masks. Requirements, testing, marking.

EN 140: Respiratory protective devices. Half-masks and quarter masks. Requirements, testing, marking.

EN 14387: Respiratory protective devices. Gas filters and combined filters. Requirements, testing, marking.

Type A (brown)	against gas and organic vapours with a boiling point superior to 60°C.
Type B (grey)	against certain gas and inorganic vapours (excluding carbon monoxide).
Type E (yellow)	against sulphur dioxide, other gas, acid vapours
Type K (green)	against ammonia and organic derivatives of ammonia.
EN 143	Filters against particules (solids and liquids). Classified according to the filter's efficiency (P1, P2, P3).

MP731R - Face piece in rubber.

MP731S - Face piece in silicone.

External face piece in rubber. Anti-scratch treated polycarbonate panoramic visor. Harness made up of 5 easy adjustable straps. Inside masks with two membranes for easy air circulation and mist prevention.1 filter carrier (cartridge) with standard En148/1 threading. Delivered without cartridge. Delivered in a non-woven bag.

EN 136



References	Type of cartridge EN 14387 and/or EN 143 For MP731R and MP731S
725A2	A2 cartridge
725P3	P3 cartridge
725A2P3	A2, P3 cartridge
725AB2P3	A2, B2, P3 cartridge
725ABEK2	A2, B2, E2, K2 cartridge
725ABEK2P3	A2, B2, E2, K2, P3 cartridge
725ABEK2HgP3	A2, B2, E2, K2, Hg, P3 cartridge





Synthetic
gloves



100% acrylic
inner layer.

SNOWFLEX

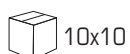
Fully coated. The gloves are machine knitted liners made of two layers. Outer layer is 100% polyamide with soft, textured natural rubber coating and inner layer is 100% acrylic. Soft foam natural coating not only enhances protection but it also provides good wet grip by channeling away excess fluid from the surface. Glove provides excellent comfort, dexterity and good protection against abrasion and tear in dry handling conditions.



3.2.2.2.B



X.2.X



10x10



9, 10, 11



SINGERO

TAC10RED

Acrylic liner. Soft foam latex coating on palm.
Special long elastic knitted wrist. 10 gauge.
The inside surface is a brushed terrycloth.



1.1.3.1.X



0.1.0

10x10 8, 9, 10, 11 **SINGER**

**TAC10GT**

Acrylic liner. Crinkle latex coating on palm.
Special long elastic knitted wrist 10 gauge.
The inside surface is a brushed terrycloth.



1.1.2.1.X



X.1.X

10x10 8, 9, 10, 11 **SINGER**

**TAC1025V**

Polyester/cotton liner. Knitted wrist.
Crinkle latex coating on palm. 10 gauge.



2.1.4.1.X

10x10 8, 9, 10 **SINGER**

**TAC1025O**

Polyester/cotton liner. Knitted wrist.
Crinkle latex coating on palm. 10 gauge.



2.1.4.1.X

10x10 8, 9, 10 **SINGER**



**TAC10BL**

Polyester liner with creped latex coating. Elasticated wrist. 10 gauge. Open back. Blue Colour.



2.1.4.2.X



10x10



7, 8, 9, 10

**SINGER** **TAC20BL**

Polyester liner with creped latex coating. Elasticated wrist. 10 gauge. 3/4 coated. Blue Colour.



2.1.4.2.X



10x10



8, 9, 10

**SINGER**



**Synthetic
gloves**

**[REDUCE THE
VIBRATION
EFFECTS]**

CVBR

Knitted glove with elasticated wrist. Liner made from polyester/nylon which offers a good ventilation and a good comfort. Palm and fingers are coated with blocks of rubber foam to reduce the vibration effects.



4.1.4.2.X

EN ISO 10819: 2013



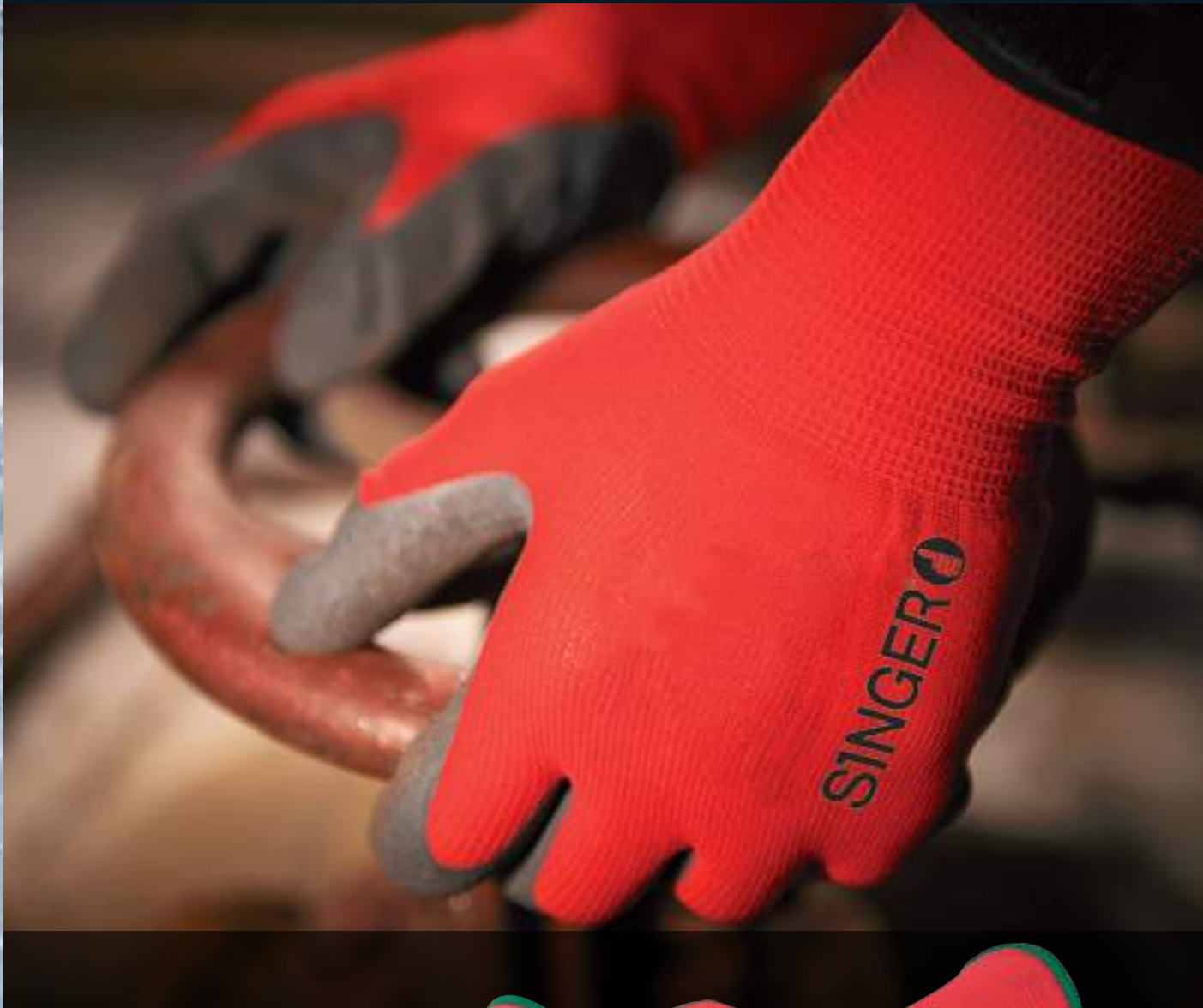
5x10



9, 10



SINGER



**[LIGHT HANDLING
IN DRY ENVIRONMENTS]**

NYM15LG

Polyamide liner with creped latex coating. Elasticated wrist. 15 gauge. Red colour, grey coating.



2.1.3.1.X



10x10



8, 9, 10, 11



SINGERO

NYM73LN

Polyester liner with latex coating. Elasticated wrist.
13 gauge. Black colour.



3.1.3.1.X



10x10



9, 10, 11



[FINE WORK]

NYM15HVG

Polyester liner with latex coating.
Elasticated wrist. 15 gauge. Yellow Colour, black coating.



2.1.3.1.X



10x10



8, 9, 10



SINGER



[HIGH VISIBILITY LINING]

NYM73HVN

Polyester liner with latex coating.
Elasticated wrist. 13 gauge. Yellow colour, black coating.



3.1.3.1.X



10x10



8, 9, 10, 11



[HIGH VISIBILITY LINING]

NYM13LAT

Liner made up of red polyester.
Elasticated knitted wrist. Gauge 13.
Black latex foam coating on palm (ventilated back).



2.1.3.1.X



10x10



8, 9, 10, 11



SINGER



**LAT830**

Fully dipped 31 cm. Crinkle finish palm. Cotton interlock liner.



3.1.3.1.X

A.K.L.P.T
TYPE B

X.2.X.X.X.X



5x10



7, 8, 9, 10

**SINGER**

LAT3130

Fully dipped 30 cm. Rough finish palm. Cotton interlock liner.



LAT2130

Fully dipped 30 cm. Smooth finish. Cotton interlock liner.



LAT426IG

Open back. Knitted wrist. Interlock cotton liner. Crinkle finish palm.



**LAT2005**

Special cleaning. Natural latex. Cotton flock-lined.
Embossed diamond pattern on palm and fingers for better grip.
Length: 300 mm (*). Thickness: 0.45 mm (*).



1.0.0.0.X

K.P.T
TYPE B

10x10



7, 8, 9, 10

**SINGER** **LAT2004**

Natural latex. Unlined. Embossed diamond pattern on palm and fingers for better grip. Length: 280 mm (*). Thickness: 0.39 mm (*).



1.0.0.0.X

K.P.T
TYPE B

10x10



7, 8, 9, 10

**SINGER** **LAT1025 / LAT1050**

For electricians. Natural latex.
Unlined. (only for the protection against electric discharges).

Reference	Tested to	Tension of use	Class
LAT1025	2500 V	500 V	00
LAT1050	5000 V	1000 V	0



x1



9, 10



**[MULTI-RISK
CHEMICAL / COLD / WARM]**



Unique and original!
Equipped with an acrylic terry
lining for a good insulation
protection
(cold / heat).



NE05040

Special cleaning in aggressive environments. Polychloroprene. Embossed diamond pattern on palm and fingers for better grip.
With acrylic terry lining. Length: 380 mm (*). Thickness: 0.68 mm (*).



2.1.1.1.X



X.1.X



A.K.L
TYPE A



X.2.X.X.X.X



5x10



8, 9, 10



SINGER

[*]. Average values

**NE0400**

Special cleaning in aggressive environments. Polychloroprene. Cotton flock-lined. Embossed diamond pattern on palm and fingers for better grip.
Length: 330 mm (*). Thickness: 0.68 mm (*).



2.0.1.1.X

B.K.L.O.P.T
TYPE A

VIRUS



10x10



7, 8, 9, 10, 11

**SINGER** **NE0270**

Special cleaning in aggressive environments. Mixed latex/polychloroprene. Cotton flock-lined. Embossed diamond pattern on palm and fingers for better grip.
Length: 320 mm (*). Thickness: 0.68 mm (*).



2.0.1.1.X

J.K.L.N.P.T
TYPE A

VIRUS



10x10



7, 8, 9, 10

**SINGER** **NE02040**

Special cleaning in aggressive environments. Neoprene. Cotton flock-lined. Embossed diamond pattern on palm and fingers for better grip.
Length: 410 mm (*). Thickness: 0.68 mm (*).



2.0.1.1.X

K.L.M.O.P.T
TYPE A

10x10



8, 9, 10, 11

**SINGER**

**NITPOL30**

Full nitrile coated. Granular finish. Cotton liner, warm insulating polar lining. Length 300 mm



3.1.1.1.X



1.1.1



TYPE C



X.2.X.X.X.X



10x10



9, 10

**SINGER**

[*]. Average values

**NIT2040**

Special cleaning in aggressive environments. Nitrile. Cotton flock-lined. Embossed diamond pattern on palm and fingers for better grip. Length: 410 mm (*). Thickness: 0,52 mm (*).



4.0.0.1.X

A.J.L.O.P.T
TYPE A

10x10



8, 9, 10, 11

**SINGER** **NIT2018**

Special cleaning in aggressive environments. Nitrile. Cotton flock-lined. Embossed diamond pattern on palm and fingers for better grip. Length: 330 mm (*). Thickness: 0,45 mm (*).



3.1.0.2.X

J.K.L.O.P.T
TYPE A

10x10



7, 8, 9, 10, 11

**SINGER** **NIT15**

Special cleaning in aggressive environments. Nitrile. Cotton flock-lined. Embossed diamond pattern on palm and fingers for better grip. Length: 330 mm (*). Thickness: 0,38 mm (*).



3.0.0.1.X

J.K.L.N.O.T
TYPE A

10x10



7, 8, 9, 10, 11

**SINGER**

**GRIPTOP**

Nitrile double coating glove. Polyamide liner. 18 gauge.
Nitrile double coating palm.
One first smooth grey coating with an additional black foam
coating. Knuckle coating version. Open back (ventilated).
Elasticated knitted wrist.



4.1.2.1.X

**GRIP157**

Seamless knitted liner (nylon).
Nitrile double coating palm. One first smooth grey coating with
an additional black foam coating. Fully coated.
15 gauge. Elasticated wrist. Colour : black.



4.1.2.1.X





OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100 



NYMFIT02

Fully coated. Dots on palm.

15 gauge. Liners made from polyamide / Elastane which offers good fit and sensitivity, superior comfort and dexterity.

Soft, foam nitrile coating on palm and polymer dots not only enhances protection but it also provides good wet grip by channeling away excess fluid from the surface. Glove provides good protection in dry handling conditions.



4.1.3.1.X



X.1.X.X.X.X



10x10



7, 8, 9, 10



SINGER 

NYMFIT00

15 gauge. Coated palm. Dots on palm.



4.1.3.1.X



X.1.X.X.X.X



10x10



7, 8, 9, 10, 11

**SINGER** **OEKO-TEX®**
CONFIDENCE IN TEXTILES
STANDARD 100 **NYMFIT01**

15 gauge. 3/4 coated. Dots on palm.



4.1.3.1.X



X.1.X.X.X.X



10x10



6, 7, 8, 9, 10

**SINGER** **OEKO-TEX®**
CONFIDENCE IN TEXTILES
STANDARD 100 **NYMFIT03**

15 gauge. Coated palm. Without dots.



4.1.3.1.X



X.1.X.X.X.X



10x10



7, 8, 9, 10, 11

**SINGER** **OEKO-TEX®**
CONFIDENCE IN TEXTILES
STANDARD 100

**PER200**

Glove with polyester and elastane mixed fibers. Seamless machine knit glove. Elasticated Wrist.
Coating: nitrile foam on palm. 15 Gauge.



4.1.2.1.X



10x10



8, 9, 10, 11



PER100

Glove with polyester and elastane mixed fibers. Seamless machine knit glove. Elasticated Wrist. Open Back. Coating: nitrile foam on palm. Nitrile dots on palm. 15 Gauge.



4.1.2.1.X



10x10



8, 9, 10, 11

**SINGER** **PER134**

Glove with polyester and elastane mixed fibers. Seamless machine knit glove. Elasticated Wrist. 3/4 coated. Coating: nitrile foam on palm. Nitrile dots on palm. 15 Gauge.



4.1.2.1.X



10x10



8, 9, 10, 11

**SINGER** **PER157**

Glove with polyester and elastane mixed fibers. Seamless machine knit glove. Elasticated Wrist. Fully coated. Coating: nitrile foam on palm. Nitrile dots on palm. 15 Gauge.



4.1.2.1.X



10x10



8, 9, 10, 11

**SINGER** 



**[SCREENTOUCH
GLOVE]**

NSA15T

Cold special Screen touch glove. Mixed acrylic / polyamid / Spandex liner. Ventilated back. 15 gauge. Soft textured nitrile coating on palm. Knitted wrist. Blue colour.



4.1.2.1.X



10x10



7, 8, 9, 10, 11



SINGER

NYM213NIB

Seamless knitted liner (Polyamide).

Nitrile coating on the palm.

13 gauge. Elasticated wrist. Colour : black.



3.1.2.1.X



10x10



7, 8, 9, 10, 11



SINGER

**NYM34GB**

Polyester liner - Nitrile coated 3/4 coated.

15 gauge. Elasticated wrist. Black colour.



4.1.2.1.X



10x10



7, 8, 9, 10, 11



SINGER

**NYM13GB**

Polyamide liner. Nitrile coated on palm.

13 gauge. Elasticated wrist. Grey colour, black coated.



3.1.2.1.X



10x10



8, 9, 10



SINGER



**NYM157NB**

Polyester liner with nitrile coating. Fully coated.
15 Gauge. Elasticated wrist. Black colour.



4.1.2.1.X



10x10



6, 7, 8, 9, 10, 11

**SINGER****NYM137NB**

Polyester liner with nitrile coating. Fully coated.
13 Gauge. Elasticated wrist. Black colour.



3.1.2.1.X



10x10



7, 8, 9, 10, 11

**Prosur****NYM13NIG**

Polyamide liner with nitrile coating. Open back. 13 gauge.
Elasticated wrist. White colour, grey coating.



4.1.2.1.X



10x10



6, 7, 8, 9, 10

**SINGER****NYM73NIG**

Polyester liner with nitrile coating. Open back. 13 gauge.
Elasticated wrist. White colour, grey coating.



3.1.2.1.X



10x10



7, 8, 9, 10

**Prosur**

NBR327

Cotton fleece liner. Knitted wrist.

Heavy coating on 100% cotton liner. Fully dipped.



4.1.2.1.X



10x10



8, 9, 10

**SINGER** **NBR9327**

Cotton fleece liner. Knitted wrist.

Heavy coating on 100% cotton liner. Fully dipped.



3.1.1.1.X



10x10



8, 9, 10

**Prosur** **NBR1327**

Cotton fleece liner. Knitted wrist.

Heavy coating on 100% cotton liner. Fully dipped.



4.1.1.1.X



10x10



8, 9, 10

**Prosur** 

**NBR326**

Cotton fleece liner. Knitted wrist.
3/4 Heavy coating. Open back.



4.1.2.1.X



10x10



8, 9, 10

**SINGER** **NBR1326**

Cotton fleece liner. Knitted wrist.
3/4 heavy coating on 100% cotton liner. Open back.



4.1.1.1.X



10x10



8, 9, 10

**Prosur** **NBR326T**

Cotton fleece liner. Canvas safety cuff.
3/4 Heavy coating. Open back.



4.1.2.1.X



10x10



9, 10

**SINGER** **NBR327T**

Cotton fleece liner. Canvas safety cuff.
Heavy coating. Fully coated.



4.1.2.1.X



10x10



9, 10

**SINGER**

NBR226

Cotton interlock liner. Knitted wrist.
3/4 Light coating. Open back.



3.1.1.1.X

10x10 7, 8, 9, 10

**SINGER****NBR1126B**

Cotton interlock liner. Knitted wrist.
3/4 Ultra-light coating. Open back.



3.1.1.1.X

10x10 7, 8, 9, 10

**Prosur****[DEXTERITY AND GOOD GRIP]****NBR126**

Cotton interlock liner. Knitted wrist.
3/4 Ultra-light coating. Open back.



2.1.1.1.X

10x10 7, 8, 9, 10

**SINGER****NBR1126J**

Cotton interlock liner. Knitted wrist.
3/4 Ultra-light coating. Open back.



3.1.1.1.X

10x10 7, 8, 9, 10

**Prosur**

**NBR227**

Cotton interlock liner. Knitted wrist.
Light coating. Fully dipped.



3.1.1.1.X



10x10



7, 8, 9, 10

**SINGER****NBR228**

Cotton interlock liner. Gauntlet style.
Light coating. Fully dipped. Length: 27 cm.



3.1.2.1.X



10x10



7, 8, 9, 10

**SINGER**

NL00

18 gauge. Ultra light blue polyamide shell for second skin sensitivity. PU coated palm. Approximately 30% lighter than traditional polyamide/PU gloves providing unparalleled tactile sensitivity. Open back. Coated fingertips version. Elasticated wrist.



3.1.2.0.X



10x10



7, 8, 9, 10

**NINJA**
Lite**NL10**

18 Gauge. Ultra light blue polyamide shell for second skin sensitivity. PU coated palm. Approximately 30% lighter than traditional polyamide/PU gloves providing unparalleled tactile sensitivity. 3/4 coated. Knuckle coated version. Elasticated wrist.



3.1.2.0.X



10x10



9, 10, 11

**NINJA**
Lite**NYMFLEX**

Mixed polyamide/acrylic fleece liner with polyurethane coating. Elasticated wrist. Glove stores heat to help regulate warmth in dry environments. Soft and comfortable glove.



3.2.4.1.X



X.2.X

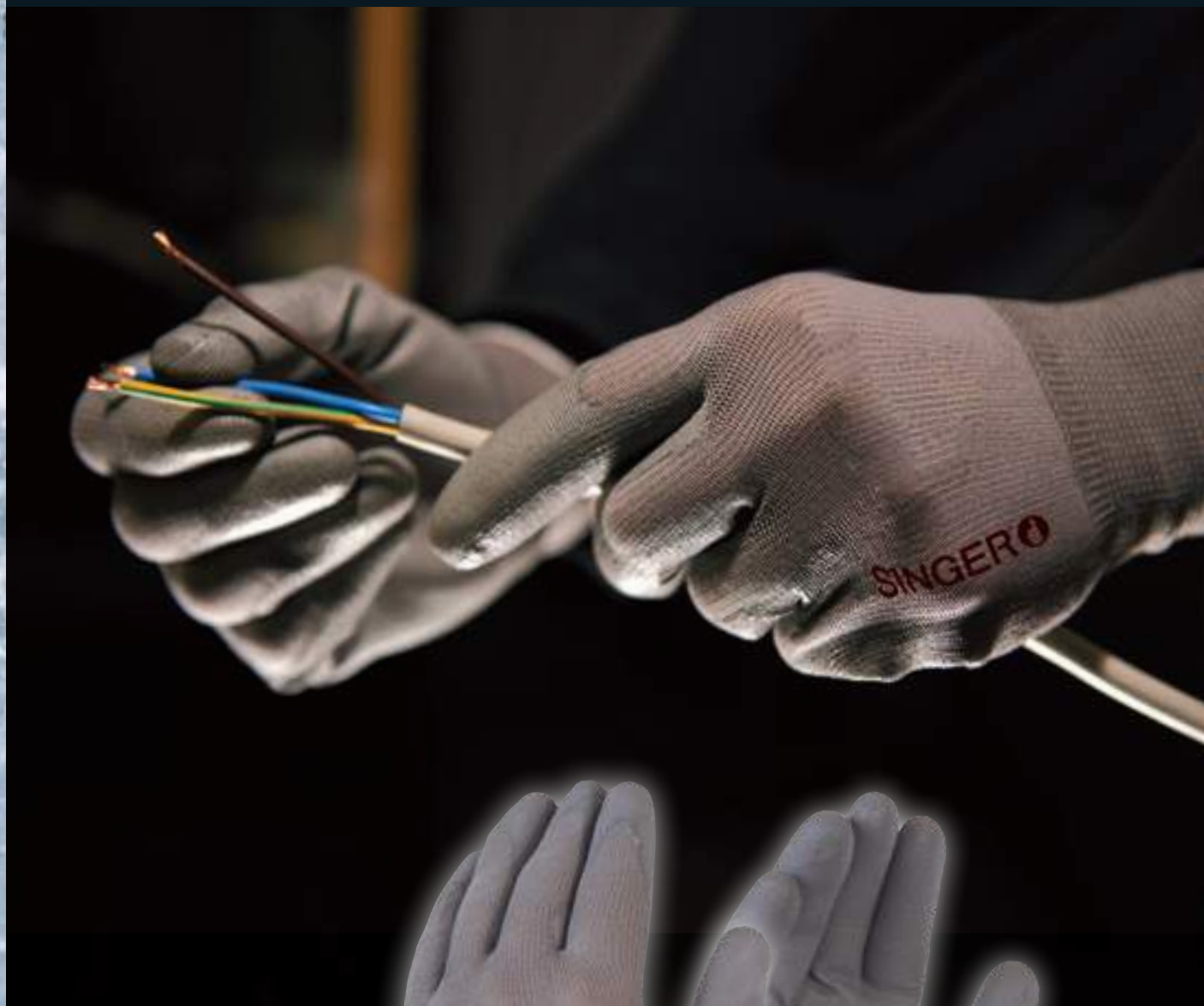


10x10



8, 9, 10, 11

**SINGER**



NYM15PUG

Polyamide liner with polyurethane coating. Elasticated wrist. 15 gauge. Colour: grey.



3.1.3.1.X



10x10



6, 7, 8, 9, 10, 11



SINGERO

NYM213PUG

Seamless knitted liner (nylon).
Polyurethane coating on the palm. 13 gauge.
Elasticated wrist. Colour : grey.



3.1.2.1.X



10x10



7, 8, 9, 10, 11

**SINGER** **NYM713PUG**

Polyester liner with polyurethane coating. Elasticated wrist.
13 gauge. Colour: grey.



3.1.2.1.X



10x10



6, 7, 8, 9, 10, 11

**Prosur****NYM713PUB**

Polyester liner with polyurethane coating. Elasticated wrist.
13 gauge. Colour: black.



3.1.2.1.X



10x10



7, 8, 9, 10, 11

**Prosur**

**NYM213PU**

Seamless knitted liner (nylon).
Polyurethane coating on the palm. 13 gauge.
Elasticated wrist. Colour : white.



4.1.3.1



10x10



8, 9, 10

**SINGER** **NYM713PU**

Polyester liner with polyurethane coating. Elasticated wrist.
13 gauge. Colour : white.



3.1.2.1.X



10x10



6, 7, 8, 9, 10, 11

**Prosur****NYM13F**

Polyester liner with polyurethane coating. Elasticated wrist.
13 gauge. Polyurethane coating on fingertips. Colour : white.



0.1.3.X.X



10x10



6, 7, 8, 9, 10

**SINGER**



[ANTISTATIC]

**NYM13AS**

Seamless knitted glove. Made from polyester and carbone threads. 13 Gauge.
Palm coated with polyurethane. Elasticated wrist. White colour.



2.1.3.1.X

EN 16350 Electrostatic characteristic :
« Vertical resistance: $R_v < 1.0 \times 10^9 \Omega$. »



10x10



7, 8, 9, 10, 11

**SINGER**



OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100



N100

Double thickness knitted gloves. Outshell in polyamide. Warm brushed lining. 15 Gauge. Elasticated wrist. Black support and black coating. HPT™ coating on the palm. Ventilated back.

The unique formulation coating remains soft and flexible in temperature as low as -50°C ! The warm brushed lining offers a comfortable and soft insulate, without compromising the flexibility of the product. Treated with Actifresh®.



3.2.3.1.X



X.2.X



10x5



7, 8, 9, 10, 11, 12



NINJA
Ice

**N100HV**

Double thickness knitted gloves. Outshell in polyamide. Warm brushed lining. 15 Gauge. Elasticated wrist. Yellow support. HPT™ coating on the palm. Ventilated back. The unique formulation coating remains soft and flexible in temperature as low as -50°C ! The warm brushed lining offers a comfortable and soft insulate, without compromising the flexibility of the product. Treated with Actifresh®.



3.2.3.1.X



X.2.X

10x5 8, 9, 10, 11



NINJA
Ice



OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100

**N157**

Double thickness knitted gloves. Outshell in polyamide. Warm brushed lining. 15 Gauge. Elasticated wrist. HPT™ coating on the entire glove for a better impermeability. Second coating (3/4). The unique formulation coating remains soft and flexible in temperature as low as -50°C ! The warm brushed lining offers a comfortable and soft insulate, without compromising the flexibility of the product. Treated with Actifresh®.



3.1.3.2.X



1.3.0

10x5 8, 9, 10, 11



SINGER



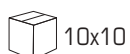


NYMR15CFTN

CFT: Compressed Formula Technology. HPT™ (Hydropellent Technology™) coating. Creates a spongy, soft, durable, flexible coating that repels liquids to provide a firm wet or dry grip. Encapsulated air molecules provide an inherent vibration absorption feature. Polyamide liner with PVC CFT HPT™ TECHNOLOGY coating. 15 gauge. Elasticated wrist.



3.1.3.1.X



10x10



8, 9, 10



SINGER

NYMV15CFTN

Polyamide liner with PVC CFT HPT™ TECHNOLOGY coating.
15 gauge. Elasticated wrist. Treated with Actifresh®.



3.1.3.1.X



OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100

N10

Polyamide seamless knitted glove. 15 gauge. HPT™ coating
(Hydropellent Technology). Knuckle coated.
Elasticated wrist. Treated with Actifresh®.



3.1.3.1.X



OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100

NYMR15D

Polyamide liner with PVC CFT HPT™ TECHNOLOGY coating.
P.V.C dots on palm. 15 gauge.
Elasticated wrist. Treated with Actifresh®.



3.1.3.1.X



OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100



Removable
fur

**[SPECIAL
LOW
TEMPERATURES]**

PVCKREM

Fully dipped on a seamless knitted liner. Triple dipped. 30 cm length. Sandy finish palm. Smooth finish gauntlet. Removable acrylic/wool fur lining for easy washing and drying. Blue colour.



4.1.3.1.X



1.2.1



A.K.L.M.P.T
TYPE A



5x10



10



SINGER



PVC535K

Fully triple dipped. 100% Cotton fleece seamless liner. Sandy finish palm. 35 cm length.



4.1.2.1.X



A.K.L.M.P.T
TYPE A



5x10



8, 8½, 9, 9½



SINGER

PVC3028

Fully double dipped.
100% cotton fleece liner. Sandy finish palm. 27 cm length.

**SINGER** **PVC3040**

Fully double dipped.
100% cotton fleece liner. Sandy finish palm. 35 cm length.

**SINGER** **PVC3045**

Fully double dipped.
100% cotton fleece liner. Sandy finish palm. 40 cm length.

**SINGER** 

**PVC528**

Fully simple dipped.
100% cotton interlock liner.
Rough finish. 27 cm.



10x10 8, 9, 10

**PVC728**

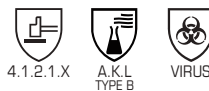
Fully simple dipped.
100% cotton interlock liner.
Smooth finish. 27 cm.



10x10 8, 9, 10

**PVC536**

Fully simple dipped.
100% cotton interlock liner.
Rough finish. 35 cm.



5x10 8, 9, 10

**PVC736**

Fully simple dipped.
100% cotton interlock liner.
Smooth finish. 35 cm.



5x10 9, 10



**PVC740**

Fully simple dipped.
100% cotton interlock liner.
Smooth finish. 40 cm.



4.1.2.1.X

A.K.L
TYPE B

VIRUS

**SINGER** **PVC755**

Fully simple dipped.
100% cotton interlock liner.
Smooth finish. 58 cm.



4.1.2.1.X

A.K.L
TYPE B**SINGER** **PVC775**

Fully simple dipped.
100% cotton interlock liner.
Smooth finish. 72 cm.



4.1.2.1.X

A.K.L.M.P.T
TYPE A

VIRUS

**SINGER** **PVC5201**

Open back smooth finish.
100% cotton interlock liner.



4.1.1.1.X

**PVC5227**

PVC gloves smooth finish. 27 cm -
Fully dipped.



4.1.1.1.X

**PVC5235**

PVC gloves smooth finish. 35 cm -
Fully dipped.



4.1.1.1.X





[AMBIDEXTROUS]

TCC507HB / TCC507FB

Polyester/cotton. 7 gauge. Knitted wrist.
Two sided blue PVC dots.



1.1.3.1.X



10x10



Men : TCC507HB
Women : TCC507FB



SINGER



TC507HB / TC507FB

Polyester/cotton. Elasticated wrist.
Blue PVC dots on palm. 7 gauge.



1.1.3.1.X



10x10



Men : TC507HB
Women : TC507FB



SINGER



[RECYCLED FIBERS]

TC207HB / TC207FB

Polyester/cotton. Knitted wrist. Blue colour.
Blue PVC dots on palm. 7 gauge.



1.1.3.1.X



10x10



Men : TC207HB
Women : TC207FB



Prosur



[SPECIAL COLD]

TBC

Acrylic. With interior warm terry lining. Elasticated wrist.
Blue PVC dots on palm. 13 gauge.
Rubber coating reinforcement between thumb and forefinger.



1.1.2.1.X



X.1.X



10x10



7, 8, 9, 10



SINGER

NYM1344BD

Stretch nylon. Blue PVC dots on palm.
Elasticated wrist. 13 gauge.



2.1.4.1.X



10x10



8, 9, 10

**SINGER** **NYM13214**

Stretch nylon/cotton. Plaited: stretch nylon outer, cotton inner. Blue PVC dots on palm. Elasticated wrist. 13 gauge.



2.1.4.1.X



10x10



6, 7, 8, 9

**SINGER** **PCC600 / PCC60008**

P.V.C Criss-Cross. Ambidextrous. Acrylic/polyester fibers.
Double side. PVC crossing. 7 gauge. Elasticated wrist.



1.1.3.1.X



10x10

Men : PCC600
Women : PCC60008**SINGER** 

**THR713**

Synthetic fibers and elastane. Ambidextrous.
Elasticated wrist. 13 gauge.



0.1.2.1.X



10x10



One size only

**SINGER** **FROST**

Seamless knitted pattern. Elasticated knitted wrist.
Without coating (Ambidextrous).
Bamboo fiber and elastane. Colour: blue.



30x10



One size only

**SINGER**

NYM13440

Stretch nylon. Ambidextrous. Elasticated wrist. 13 gauge.



1.1.4.2.X



10x10



M(9), L(10), XL(11)



SINGER

**NYM13DME**

Stretch nylon. Same as NYM13440 but lighter weight. 13 gauge. Ambidextrous. Elasticated wrist.



0.1.4.1.X



10x10



6, 7, 8, 9, 10



SINGER

**NY100**

White nylon with hemmed cuff. Fourchettes pattern.



30x10



6, 7, 8, 9,
10, 11, 12



SINGER





[LATEX
COATED]

PHD5LAT

HDPE fibers liner (High Density Polyethylene).

Crinkle latex coated palm.

13 gauge. Elasticated wrist. Open back.



3.X.4.2.C



10x10



9, 10, 11



SINGER 



[**CUT
LEVEL F**]**PHS500**

Seamless knitted pattern. Elasticated knitted wrist.
Gauge 13. Liner made up of high density polyethylene fibers (HDPE) and stainless steel fibers.
Nitrile foam coating on palm.
Crotch reinforcement between thumb and forefinger.



4.X.4.3.F



10x10



8, 9, 10, 11

**SINGER** [**NITRILE
COATED**]**PHD5NIF**

HDPE fibers liner (High Density Polyethylene).
Nitrile foam coated palm.
13 gauge. Elasticated wrist. Open back.



4.X.4.2.C



10x10



8, 9, 10, 11

**SINGER** 



**[NITRILE FOAM
COATING]**

PHD5RED

Seamless machine knit glove, elasticated wrist. Liner made from HDPE (High Density Polyethylene fibers). Coating: nitrile foam on palm. Crotch reinforcement between thumb and forefinger. Dots on palm



4.X.4.3.D



10x10



8, 9, 10, 11



SINGERO

**PHD54RED**

Seamless machine knit glove, elasticated wrist. Liner made from HDPE (High Density Polyethylene fibers).
Coating: nitrile foam on palm and back. Crotch reinforcement between thumb and forefinger. 3/4 coated. Dots on palm.



4.X.4.3.D



10x10



8, 9, 10, 11

**SINGER**



**INNOVATION
DOUBLE LAYER GLOVE
NITRILE**

**DOUBLE COATING
FLAT NITRILE
+ NITRILE FOAM.**

GRIPCUT®

Cut level C. Liner made of HDPE high tenacity fibers. (High density polyethylene HDPE). Unique nitrile on double coating palm. 1st layer in flat nitrile (knuckle coating). 2nd layer in nitrile foam, which offer excellent grip in wet and dry conditions. ¾ coating version. 10 gauge. Elasticated knitted wrist.



4.X.4.3.C



10x10



8, 9, 10, 11



SINGERO



**DOUBLE
COATING**

PHD534

Seamless knitted pattern. Elasticated knitted wrist. Gauge 13. Liner made up of high density polyethylene fibers (HDPE). Coating : Double nitrile coating on palm (¾ coated).



4.X.4.3.D



10x10



6, 7, 8, 9, 10, 11



SINGERO



**DOUBLE
COATING**

PHD557

Seamless knitted pattern. Elasticated knitted wrist. Gauge 13. Liner made up of high density polyethylene fibers (HDPE). Coating : Double nitrile coating (Fully coated).



4.X.4.3.D



10x10



6, 7, 8, 9, 10, 11



SINGERO





**[MULTI-RISKS GLOVE,
MULTI-LAYER]**

**[NITRILE
DOTS ON PALM.]**

NITCUT®

Cut level E. The outer layer of high density polyethylene (HDPE) provides excellent protection against mechanical risks. The insertion of an intermediate layer in nitrile provides protection against certain chemicals. The inner layer of cotton, associated to the other layers, allows protection against contact heat. Finally, the palm of the glove is coated with nitrile dots for enhanced grip.



4.X.4.4.E



A.K.L
TYPE B



X.1.X.X.X.X



12x6



9, 10



SINGER



**[CUT PROTECTION /
AGAINST COLD]**



Fully lined with a double
layer of acrylic terry.



SNOWCUT®

Cut level D. Double layer concept Liner made of HDPE fibers (High Density Polyethylene)
Internal layer made of 100% acrylic terry. 10 gauge. Elasticated wrist. Nitrile foam coating on palm. Open back.



4.X.4.2.D



X.1.X



5x10



8, 9, 10, 11



SINGER

Synthetic
gloves**PHD10CU**

Seamless knitted glove made of synthetic yarns; HDPE, elastane and organics fibers. 10 Gauge. Elasticated wrist. Split leather patch on the palm and on the fingers.



4.X.4.4.D



X.2.X.X.X.X



5x10



9, 10

**SINGER**



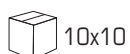
**[VERY SOFT AND
COMFORTABLE]**

PHD135PU

HDPE fibers liner (High Density Polyethylene). 13 gauge. Knitted wrist.
Polyurethane coated palm. Open back.



4.X.4.3.D



10x10



6, 7, 8, 9, 10, 11



SINGER

PHD305PU

Liner made of HDPE fibers (High Density Polyethylene) and other fibers. Hard-wearing material reinforcement between thumb and forefinger. Polyurethane coated on palm. 13 gauge. Open back. Long knitted wrist.



4.X.4.3.D



[LONG KNITTED WRIST. UNIQUE REINFORCED SEAM BETWEEN THE THUMB AND THE FOREFINGER.]

PHD325PU

HDPE fibers liner (High Density Polyethylene). 13 gauge. Knitted wrist. Polyurethane coated palm.



4.X.4.3.D

**PHD5PU**

HDPE fibers liner (High Density Polyethylene). Polyurethane coated palm. 13 gauge. Elasticated wrist. Grey colour.



4.X.4.2.C





[BI-POLYMER]

NFB10B

Cut level B. Glass fibers mixed with other synthetic fibers. BI-POLYMER coated palm (PU/nitrile). Elasticated wrist. (Provides unsurpassed softness and durability). 10 gauge.



4.X.3.1.B



10x10



6, 7, 8, 9, 10, 11



SINGER



[BI-POLYMER]

NX410

Cut level B. Seamless knitted glove made of wrapped synthetic and glass fibers. 13 gauge. High mechanical resistance, cut level 4. Bi-polymer knuckle coated: provides unsurpassed softness (PU), durability and resistance against oils (nitrile). Silicone free and DMF free coating. Treated with Actifresh®



4.X.3.1.B



10x10



6, 7, 8, 9, 10



NINJA
X4



[BI-POLYMER]

NX430

Cut level B. Seamless knitted glove made of wrapped synthetic and glass fibers. 13 gauge. High mechanical resistance, cut level 4. Bipolymer fully coated: provides unsurpassed softness (PU), durability and resistance against oils (nitrile). Silicone free and DMF free coating. Treated with Actifresh®.



4.X.3.1.B



10x10



7, 8, 9, 10, 11



NINJA
X4

DYN133GPUG

HDPE fibers liner (High Density Polyethylene).
Polyurethane coating. 13 gauge. Elasticated wrist.
Grey colour.



4.3.4.3.B



10x10



6, 7, 8, 9, 10, 11

**SINGER** **PHD133PU**

HDPE fibers liner (High Density Polyethylene).
Polyurethane coating. 13 gauge. Knitted wrist.
Grey colour.



4.X.4.2.B



10x10



6, 7, 8, 9, 10, 11

**SINGER** **PHD3PU**

HDPE fibers liner (High Density Polyethylene).
Polyurethane coated palm. 13 gauge. Knitted wrist.
Grey colour.



4.X.4.2.B



10x10



7, 8, 9, 10, 11

**SINGER** 

(*) Made from real Kevlar® fibers, registered trademark of DuPont™ de Nemours.



TKVS13^(*)

Seamless knitted glove made of synthetic yarn in Kevlar® and Modacrylic. 7 Gauge.
The fully cotton lining will bring comfort and a good insulation against heat. Elasticated wrist.
Split leather safety cuff.



1.3.4.X.X



X.2.X.X.X.X



5x10



9, 10



SINGER



[KEVLAR®]



Layer made of 100% cotton
to offer comfort and insulation

TKV7P

Cut level C. Contact heat level 3. 7 gauge. Knitted glove made of two layers. Outside layer made of 100% Kevlar®. Inside layer made of 100% cotton to assist in ventilation, comfort and insulation. Reversible. 34 cm length.



2.5.4.1.C



4.3.4.3.2.X



50x1



11



SINGER

TKV105^(*)

Cut level E. 10 gauge.

Blended fibers: Kevlar®, steel and other fibers.

Soft rubber coating on palm. Elasticated wrist.



4.X.4.3.E



X.2.X.X.X.X



10x10



8, 9, 10, 11

**SINGER** **TKV345^(*)**

Cut level E. 10 gauge.

Blended fibers: Kevlar®, steel and other fibers.

Soft rubber knuckle coated. Elasticated wrist.



4.X.4.3.E



X.2.X.X.X.X



10x10



8, 9, 10

**SINGER** **TSP613**

Cut level C. HDPE (High Density Polyethylene) liner.

13 gauge. White colour. Ambidextrous. Elasticated wrist.

Delivered with an inner cotton glove. Sold by piece.



1.X.4.2.C



X.1.X.X.X.X



10x1



6, 7, 8, 9, 10

**SINGER** Delivered with an
inner cotton glove

**MC5**

Synthetic working glove. Silicone dots on palm. Reinforcement between thumb and forefinger. Elasticated polychloroprene wrist. Linner palm with fibers para-aramid. Thanks to its technical characteristics, this glove is particularly suitable for all the main works requiring good protection against mechanical hazards, including cut protection (level 5 as per EN388) and shocks.



3.5.3.2.D



10x5



9, 10

**SINGER**

Flexible and resistant, the Mechanics gloves are adapted for many activities: operating machines, handling objects, sports, leisure... Through the choice of quality materials and excellent workmanship, the mechanics gloves are particularly comfortable and adapt ideally to the contours of the hand. They guarantee excellent dexterity to the user. The various forms of reinforcement on the palm ensure a longer life and excellent protection.

**MC6021**

Palm: 65% nylon, 35% PU. Back: 97% polyester, 3% Spandex. Polyester self-grip adjustment at wrist.



1.1.1.1.X

**SINGER** **MC6022**

Palm: 65% nylon, 35% PU. Back: 97% polyester, 3% Spandex. Polyester self-grip adjustment at wrist.



1.1.1.1.X

**SINGER**





Cotton
gloves



**[HEAVY
FINISH]**

**JE300H
JE300F**

Natural interlock cotton. Two-piece reversible style. Knitted wrist.



30x10



Men (10) : JE300H
Women (8) : JE300F



SINGER



**[LIGHT
FINISH]**

**JE300HL
JE300FL**

Natural interlock cotton. Same as JE300H / JE300F but light version.



30x10



Men (10) : JE300HL
Women (8) : JE300FL



Prosur

**JB135**

Bleached cotton interlock. 35 cm length. Fourchettes pattern. Hemmed cuff.

**SINGER** **JB100**

Bleached cotton interlock. Fourchettes pattern. Hemmed cuff.

**SINGER** **JBP100SW**

Bleached cotton interlock. Fourchettes pattern. Hemmed cuff.

**Prosur** 


400JE
400JEF

Brushed cotton Jersey. Knitted wrist.



Men (10) : 400JE
Women (8) : 400JEF



SINGER


400JM
400JMF

Brushed cotton Jersey. Knitted wrist.



Men (10) : 400JM
Women (8) : 400JMF



SINGER


700BL

Cotton terry. Terry, heavy weight. Knitted wrist.



1.1.3.1.X



X.1.X.X.X.X



SINGER

700BL15BL

Cotton terry. Terry, heavy weight. 15 cm terry cuff.



1.1.3.1.X



X.1.X.X.X.X



10x10



10

**SINGER** **700BM**

Cotton terry. Terry, medium weight. Knitted wrist.



1.1.3.X.X



X.1.X.X.X.X



10x10



10

**SINGER** **700BM15T**

Cotton terry. Terry, medium weight. 15 cm canvas cuff.



1.1.3.X.X



X.1.X.X.X.X



10x10



10

**SINGER** 



**[PAINT AND
ANTI-STAINING]**

**P754H
P754F**

Cotton canvas. Single layer. Nap-in. Knitted wrist.



Men (10) : P754H
Women (8) : P754F



SINGER



Double layer Nap-in, nap-out.

PRP754/08

Hot-mill double layer canvas. Nap-in, nap-out. 8 cm gauntlet.



1.1.1.2.X



X.1.X.X.X.X



10x10



10



SINGER



PRP754/15

Hot-mill double layer canvas. Nap-in, nap-out. 15 cm gauntlet.



1.1.1.2.X



X.1.X.X.X.X



10x10



10



SINGER

**T301H
T301F**

Seamless knitted polyester/cotton glove. Reversible. Elasticated wrist. Coloured overcast. 7 gauge.



Men : T301H
Women : T301F

**T301HL
T301FL**

Seamless knitted polyester/cotton glove. Reversible. Elasticated wrist. Coloured overcast. 10 gauge.



Men : T301HL
Women : T301FL

**[RECYCLED
FIBERS]****T207H
T207F**

Polyester/cotton seamless. Knitted wrist. Grey colour. 7 gauge.



Men : T207H
Women : T207F







Leather
gloves



[**WATER-
REPELLENT.**]



50BCH

Protective gloves made of a left glove different from the right glove. Palm in natural cow grain leather with a double leather coating on the top of the palm. Canvas fabric back with PU coating. Fingertips and reinforcement on back. Knitted wrist. Only the left glove has a protective part on the back to offer protection against chain saws. Palm and fingers of the right glove don't have this special protective part.

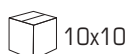


3.2.2.2



EN381-7

Model A
(Left hand only)
Class 0 (16 m/s)



10x10



9, 10



SINGER

**[WATER-
REPELLENT.]**

50GHB

Cow grain leather palm. Water-repellent.
All grain leather. Shirred elastic back.



2.1.2.1.X

 10x10  8, 9, 10, 11   **SINGER** 



**[WATER-
REPELLENT.]**

50GHBBC

Cow grain leather palm. Water-repellent. All grain leather. Elastic
knitted wrist. Leather vein patch protection with buttonhole.



2.1.2.1.X

 10x10  8, 9, 10, 11   **SINGER** 



**[SHIP SKIN LEATHER: FIRST-RATE
COMBINATION OF SOFTNESS
AND RESISTANCE.]**

CHV114HB

Full grain goat skin. Water-repellent. Elastic knitted wrist.
Leather vein patch protection with buttonhole.



2.0.2.1.X

 10x10  8, 9, 10, 11  **SINGER** 



**50GB**

Beige cow grain leather. All grain. Very soft. Shirred elastick back.



2.1.1.1.X



10x10



8, 9, 10, 11

**SINGER** **50GBBC**

Beige cow grain leather. All grain. Very soft. Elastic knitted wrist. Leather vein patch protection with buttonhole.



2.1.1.1.X



10x10



8, 9, 10, 11

**SINGER** **50EFBBC**

Beige cow grain leather. All grain. Very soft. Elastic knitted wrist. Leather vein patch protection with buttonhole.



2.1.1.1.X



10x10



8, 9, 10, 11

**Prosur**

56GY

Yellow cow grain leather. All grain leather. One piece forefinger.
Shirred elastic back. Red hem at wrist.



2.1.1.1.X



10x10



8, 9, 10, 11

**SINGER** **50EFJ**

Yellow cow grain leather. All grain. Shirred elastic back.



2.1.1.1.X



10x10



8, 9, 10, 11

**Prosur****56GN**

Natural cow grain leather. All grain leather. One piece forefinger.
Shirred elastic back.



2.1.2.1.X



10x10



8, 9, 10, 11

**SINGER** 

**[AVAILABLE IN
VERY LARGE SIZES]**

50F

Natural cow grain leather. All grain. Shirred elastic back.



2.1.2.1.X



10x10

8, 9, 10, 11,
12, 13, 14**Prosur**

**56GSN**

Natural cow grain leather palm. Split leather back. One piece forefinger. Shirred elastic back. Red hem at wrist.



2.1.2.1.X



10x10



8, 9, 10, 11

**SINGER** **50FC**

Natural cow grain leather palm. Split leather back. Shirred elastic back. Red hem at wrist.



2.1.2.1.X



10x10



8, 9, 10, 11

**Prosur** **56S**

Split cow leather. All split. One piece forefinger. Shirred elastic back. Red hem at wrist.



2.1.2.2



10x10



9, 10

**SINGER**

**WATER-REPELLENT.
THINSULATE LINED®**

50GHNTH

Full cow grain leather. Fully Thinsulate® lined. Water-repellent. Shirred elastic back. (Thinsulate® is a trademark of 3M).



2.1.2.1.X



X.2.0



10x10



8, 9, 10, 11



SINGER



Warm fur acrylic boa lined.

56GYPA

Full cow grain leather. Fully fur acrylic boa lined. Shirred elastic back. One piece leather forefinger. Red hem at wrist.



2.1.1.1.X



X.1.0



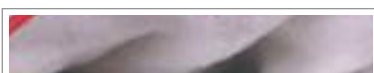
10x5



10, 11



SINGER



Warm cotton fleece lined.

56GYP

Full cow grain leather. Fully cotton fleece lined. Shirred elastic back. One piece leather forefinger. Red hem at wrist.



2.1.1.1.X



X.1.0



10x10



10, 11



SINGER





[FINENESS AND ERGONOMICS]

AGN102

Sheep skin leather.
All sheep leather. Shirred elastic back.



10x10



7, 8, 9, 10


SINGER


AGN105

Sheep skin leather. Sheep leather palm.
Cotton interlock back. Shirred elastic back.



10x10



6, 7, 8, 9, 10


SINGER

SOFTNESS AND RESISTANCE

CHV114

Goatskin leather. Full grain goatskin leather. Elastic knitted wrist. Leather vein patch protection with buttonhole. Gunn cut.



2.0.2.1.X

10x10 7, 8, 9, 10, 11 **SINGER**



CHV561R

Goatskin leather. Grain goatskin leather palm. One piece leather forefinger. Red cotton interlock back with leather fingertips. Shirred elastic back. Gunn cut.



1.0.1.1.X

10x10 6, 7, 8, 9, 10, 11 **SINGER**



CHV561B

Goatskin leather. Grain goatskin leather palm. One piece forefinger. Blue interlock back with leather fingertips. Elasticated back. Gunn cut.



1.0.1.1.X

10x10 7, 8, 9, 10 **Prosar**



**501S**

Cow split. Cotton lined palm. Leather fingertips. Cotton fabric back with leather knuckle patch reinforcement. Safety rubberized cuff.



3.1.2.2.X



5x10



10

**SINGER** **5010RD**

Cow split. Cotton lined palm. Leather fingertips. Striped cotton fabric back with leather knuckle patch reinforcement. Safety cuff.



2.1.1.1.X



10x10



10

**Prosur** **501SRS**

Cow split. With split reinforcement on palm. Cotton lined palm. Leather fingertips. Cotton fabric back with leather knuckle patch reinforcement. Safety rubberized cuff.



3.1.2.2.X



5x10



10

**SINGER** **501SYRGY**

Cow split. Yellow colour leather. With grain reinforcement on palm. Cotton lined palm. Leather fingertips. Cotton fabric back with leather knuckle patch reinforcement. Safety rubberized cuff.



3.1.2.2.X



5x10



10

**SINGER**

[WITH REINFORCEMENT AND VEIN PATCH PROTECTION.]

501SGRSVJ

Cow split. With green split reinforcement on palm, thumb and forefinger. Cotton lined palm. Leather fingertips. Cotton fabric back with leather knuckle patch reinforcement. Safety rubberized cuff.



3.1.2.2.X



SINGER



[WITH REINFORCEMENT AND VEIN PATCH PROTECTION.]

501RS

Cow split. With natural split reinforcement on palm, thumb and forefinger. Cotton lined palm. Leather fingertips. Cotton fabric back with leather knuckle patch reinforcement. Soft safety canvas cuff.



3.1.2.2.X



Prosur



[SOFT GRAIN LEATHER, LEATHER VEIN PATCH PROTECTION.]

501N

Cow grain. Cotton lined palm. Leather fingertips. Cotton fabric back with leather knuckle patch reinforcement. Safety rubberized cuff.



2.1.2.1.X



SINGER



**50ELEC**

All grain leather glove, beige colour. Split leather back, grey colour, 10 cm. Adjustment with hook-and-loops-flap on the back. Thanks to its conception, this glove can be used as an electrical over-glove to assure a better protection and a longer longevity. Can't be used alone against electrical risk.



2.1.2.1.X



5x10



9, 10, 11



51GS10

Cow grain leather palm. Split leather back and cuff. 10 cm cuff.



2.1.2.1.X



5x10



10

**SINGER** **51GS15**

Cow grain leather palm. Split leather back and cuff. 15 cm cuff.



2.1.2.1.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**SINGER** **51GS20**

Cow grain leather palm. Split leather back and cuff. 20 cm cuff.



2.1.2.1.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**SINGER** 

**51G15**

Full cow grain leather. Split leather cuff. 15 cm cuff.



2.1.2.1.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**SINGER** **51EFC15**

Natural cow grain leather palm. Split leather back. 15 cm split leather cuff.



2.1.2.1.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**Prosur** **51S15**

Cow split. 15 cm cuff.



3.1.2.2.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**SINGER** **51EC15**

All cow split. 15 cm leather cuff.



2.1.2.1.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**Prosur**

**[SOFTNESS AND
ERGONOMICS]**

AGN106

Full sheep skin leather. Fourchettes pattern.
Split leather cuff of 14 cm.



2.0.1.1.X



10x10



9, 10



SINGER



**[SOFT AND
RESISTANT]**

CHV106

Full goat skin leather. Fourchettes pattern.
Split leather cuff of 14 cm.



2.0.2.1.X



10x10



9, 10



SINGER





["FOURCHETTE"
PATTERN]



51WELD

All cow split leather glove. Brown colour. Ergonomic "Fourchette" pattern. Leather patch reinforcement on palm and forefinger. Elasticated wrist. Sewn with Kevlar thread. The glove is fully lined with a cotton fabric for a good insulation against heat. Cuff area is lined with a cotton woven fabric.



4.2.3.4.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



9, 10


SINGER

50SIVAP15

Glove with an orange safety cuff split leather on palm and front cuff with fire-retardant treatment. Back and fingers on natural split leather (not treated) covered with an aluminized fabric, sewn with kevlar yarn. The glove is fully lined with a cotton fabric for a good insulation against heat. Cuff is lined with a cotton woven fabric.



4.1.3.3.X



4.1.2.2.4.X

EN 12477 TYPE A



5x10



9, 10

**SINGER** **[FIRE RESISTANT GLOVES]**

Fully lined for a better heat insulation.

51SIP15

All cow split leather. Fire-resistant treatment. 15 cm natural split leather cuff (not treated). Sewn with aramid yarn. Fully lined. 35 cm length.



3.1.2.2.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**SINGER** 

**51S0UD**

All cow split leather. Reinforced with a second layer of leather on palm, thumb and forefinger. Sewn with aramid yarn. Full cotton lined. 35 cm length.



4.1.1.2.X



3.1.3.X.4.X

EN 12477 TYPE A



5x10



10



51SIREP15KV

All cow split leather. Aramid yarn. Fully cotton lined. 35 cm length.



3.1.3.3.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**SINGER** **51SIREP15**

All cow split leather. Polyester yarn. Fully cotton lined. 35 cm length.



3.1.3.3.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**SINGER** **51SIVP15**

All cow split leather. Polyester yarn. Fully cotton lined. 35 cm length.



3.1.3.3.X



4.1.3.X.4.X

EN 12477 TYPE A



5x10



10

**SINGER** 

(*) Made from real Kevlar® fibers, registered trademark of DuPont™ de Nemours.



PYROMTE

40 cm fire retardant protective sleeves. Fabric in 350 gsm. 98% cotton, 2% antistatic material (carbon). Elastic under hem at wrist. Adjustment at elbow with hook-and-loops flap. Colour: blue. Sold by pair.



EN ISO 11611
(Class 1 A1+A2)



EN ISO 11612
(Class A1+ A2, B1 C1 E1)



EN ISO 1149-5



SINGER



MANBLEU

Cotton fabric sleeve. Length 40 cm. Elastic band under hem at wrist. Elbow adjustment with hook-and-loops straps. Colour: blue. Sold by pair.



SINGER



BCLMTE35

Cotton terry cloth sleeve. Length 35 cm (40 cm with the wrist) Elastic band at wrist. Elastic under hem at elbow. Sold by pair.



SINGER



COTMTE40

Cotton fabric sleeve. Length 40 cm. Elastic band at wrist. Elastic under hem at elbow. Natural colour. Sold by pair.



SINGER



SOUDAM

Cow split leather sleeve. Elasticated on both sides. Useful length: 40 cm (+/- 2 cm). Sold by pair.



EN ISO 11611
(Class 1/2 A1)



Prosur

PHDMTE45

Seamless machine knitted from high density polyethylene yarn (HDPE) blended with polyamide, yarn fibreglass and spandex. Elastic at elbow and cuff. Thumb opening. Ambidextrous style. Length: 45 cm. Sold by piece.



3.X.4.X.C



10x10

SINGER **TKVMTE46**

Kevlar® (*) knitted protective sleeve, double layer. Protection of the forearm and palm of the hand. Ambidextrous. Thumb opening. Length: 46 cm. Sold by piece.



1.3.4.3.C



X.1.X.X.X.X



40x5

SINGER **MTEPUB** Colour : white - **MTEPUV** Colour : green

Polyurethane/PVC sleeves. Length: 53 cm. Self grip fastening at elbow. Elasticated wrist. Welded seams Sold by pair.



EN343



20x1

SINGER **PVCMTEVER**

PVC sleeve with polyester liner. Length 40 cm. Elastic band at wrist, elastic under hem at elbow. Colour: green. Sold by pair.



5x10

Prosur









[**TAPED SEAMS**]



PAZ

3x1 garment. Made of a outer parka with no padding and a warm and comfortable inner detachable Polar jacket. Numerous pockets. Retro-reflective piping. Multi-use keyholder. Colour: grey/black/red. Parka : outshell in 100% polyester Pongee rip-stop 7x7 mm with PVC coating. Patch reinforcement fabric: 100% polyester Oxford with PVC coating, 360 gsm. Lining: 100% polyester Taffeta. Features a zip access for print. Detachable inner jacket: 100% polar fleece polyester, 96F, 280 gsm. Knitted wrist for a better insulation against cold. Pockets. Front zipper. Adjustment with drawcord and stoppers.

 10x1  S - 3XL

SINGER 



[**TAPED SEAMS**]



PALMA

Warm winter parka. 100% polyester twill Oxford PU coated. Waterproof 1000 mm. 100% polyester lined. 160 gsm polyester padding. 8 outside pockets. 1 inner pocket. Front zipper under flap with press-studs and self grip fastening. Adjustable hood with drawstring and stoppers, detachable with press-studs. Warm polar fleece lined collar. Reflective piping. Inside knitted wind cuffs. Inside elasticated waist with drawstring and stoppers. Taped seams. Features a zip access for print. Colour: grey/black.

10x1 S - 3XL

SINGER



PALAWA



Rip-stop polyester outshell with PVC coating. Polyester polar body lining. Polyester sleeves lining. Polyester padding. Numerous and various inner and outer pockets. Front zipper with flap. Detachable hood with polar lining, adjustable with drawcord. Adjustable sleeves. Reflective piping. Features a zip access for print. Waterproof 1000 mm. Colour: black/grey

 10x1  S - 3XL

SINGER 

**PALAMA**

Rip-stop polyester outshell with PVC coating. Polyester polar body lining. Polyester sleeves lining. Polyester padding. Numerous and various inner and outer pockets. Front zipper with flap. Detachable hood with polar lining, adjustable with drawcord. Adjustable sleeves. Reflective piping. Features a zip access for print. Waterproof 1000mm. Colour: black/navy blue.

 10x1  S - 3XL

SINGER 

**PARPAL**

Polyester outshell with PU coating. Padding: 160gsm. Front zipper with flap. Pockets. Polyester lining. Elastic wrist. Hood in collar. Colour : black (red contrasts)

 10x1  S - 3XL

Prosur





[**TAPED SEAMS**]



BOSTON

2 x 1 warm and comfortable jacket/bodywarmer. Detachable hood and sleeves. Numerous pockets. Retro-reflective piping. Multi-use keyholder. Outshell: 100% polyester Pongee Rip-stop 7x7 mm with PVC coating. Patch reinforcement fabric: 100% polyester Oxford with PVC coating, 360 gsm. Lining on collar and body: 100% polar fleece polyester; 96F, 260 gsm. Lining on sleeves and hood: 100% polyester Taffeta. Padding: 100% polyester. Features a zip access for print. Colour: grey/black/red.



10x1



S - 3XL

SINGER



GIL800B

Outshell: polyester/cotton. Lining and padding: polyester. Outside various pockets. Detachable sleeves. Elasticated cuffs. 1 inside pocket. Color: Navy blue.



10x1





M - 3XL

Prosup



GASPAR

Outshell: Rip-stop polyester with PVC coating.
 Lining: polyester polar fleece. Padding: polyester.
 Front zipper: 2 front slant pockets with flap. 2 breast pockets with zip. 3 pen holders. 1 mobile phone pocket with flap.
 1 inside pocket with zip. Point collar. Elasticated on both sides.
 Reflective piping. Multi-use keyholder.
 Features a zip access for print.
 Colour: black/grey.



 10x1  S - 3XL

SINGER 



GASMA

Outshell: Rip-stop polyester with PVC coating.
 Lining: polyester polar fleece. Padding: polyester.
 Front zipper: 2 front slant pockets with flap. 2 breast pockets with zip. 3 pen holders. 1 mobile phone pocket with flap.
 1 inside pocket with zip. Point collar. Elasticated on both sides.
 Reflective piping. Multi-use keyholder.
 Features a zip access for print.
 Colour: black/navy blue.

 10x1  S - 3XL

SINGER 



**GEORGRIS**

Polyester polar fleece bodywarmer with front zipper. 330 gsm.
2 zipped waist pockets. 1 chest pocket. Reinforcement at shoulders.
Straight collar. Light weight, convenient and very warm! Colour: grey/black.



10x1



S - 3XL

SINGER **GILSPORTM**

Polyester/cotton outshell. Lining and padding in polyester.
Mandarin collar with press-studs. 8 pockets.
Loins protection. Front zipper under flap with press-studs. Colour: navy blue.



10x1



M - 3XL

Prosur **GILSPORTN**

Polyester/cotton outshell. Lining and padding in polyester.
Mandarin collar with press-studs. 8 pockets.
Loins protection. Front zipper under flap with press-studs. Colour: black.



10x1





M - 3XL

Prosur



GIL700B

Polyester/cotton bodywarmer with collar. Polyester lining.
Polyester padding. 3 outer pockets including one mobile phone pocket with flap. 1 inner pocket. Straight cut. Loins protection.
Colour: navy blue.

 10x1  M - 3XL

**GILALPA**

Polyester/cotton outshell. Lining: polyester.
Padding: polyester. 2 front pockets + 1 mobile pocket. 1 inside pocket.
Elastic waistband. Colour: navy blue.

 10x1  M - 3XL

**GILBLANC**

Polyester/cotton outshell. Lining: polyester.
Padding: polyester. 2 inside pockets. Elastic waistband.
Colour: white.

 10x1  S - 3XL





VANCOUVER

Windbreak breathable jacket.

Type: Softshell outdoor: 2 x 1 (reversible sleeves).

Warm polar finish inside. Retro-reflective piping. Pockets.

Adjustable wrists. Material: 94% polyester- 6% elastane.

Waterproof 8000 mm. Breathable 800 mvp. Colour: grey/black/red.

Advantages : warm, very soft, comfortable and aesthetic. Very light wear. The innovative material of this garment provides a very good elasticity and a great comfort.



10x1



S - 3XL

SINGER



VIRGINIA

Soft outdoor windbreaker vest in Softshell fabric:

94% polyester, 6% elastane. Front zip. Straight collar.

Polar inside. 3 outside pockets. Reflective piping. Inside tightening waist with drawstring and stoppers. Waterproof 8000 mm.

Breathable 800 mvp. Colour: black.

Advantages : very light wear. Outdoor profile. The innovative material of this garment provides a very good elasticity and a high sensation of comfort. Water-repellent and breathable.

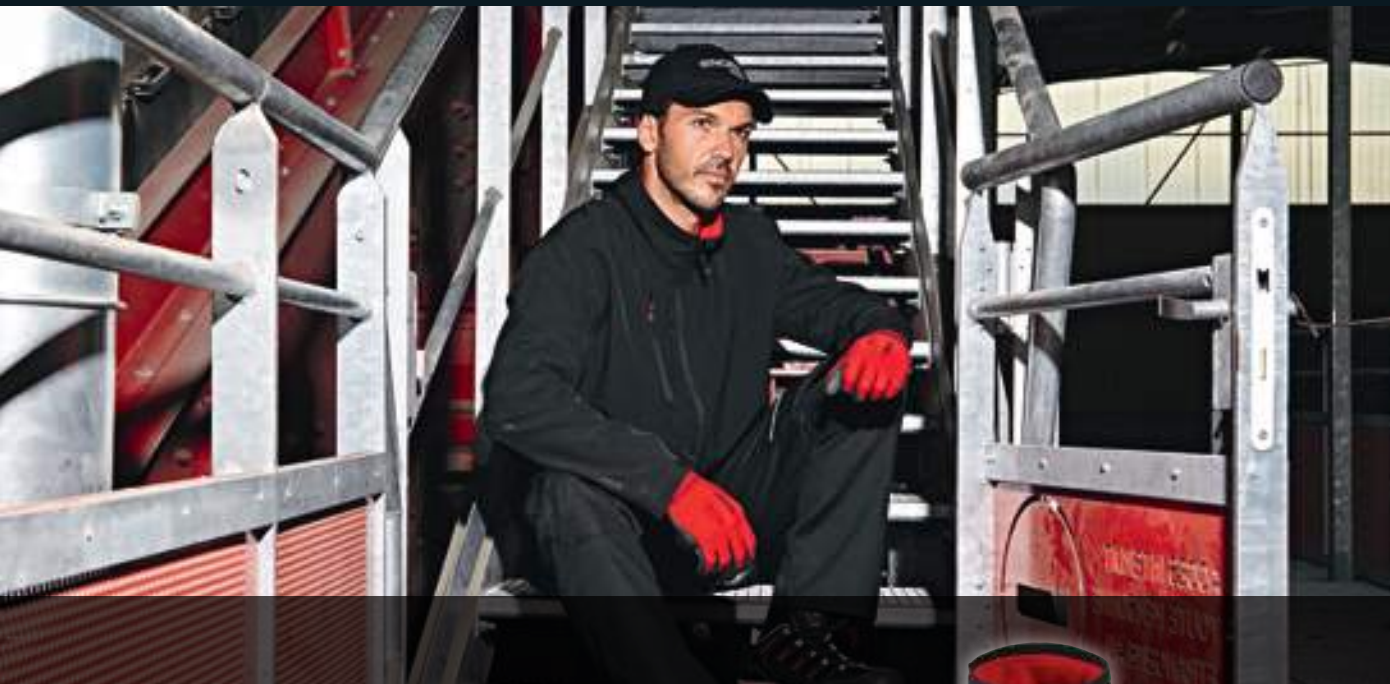


10x1





S - 3XL

SINGER

**VERNON**

Soft outdoor windbreaker vest in Softshell fabric with micro fleece lining. 96% polyester, 4% elastane. Front waterproof zip closing. Straight collar. 3 outer pockets. Adjustable wrists. Inside tightening waist with elastic drawstring and stoppers. Colour: black. Red contrasts. Advantages : Very light wear. Outdoor profile. The innovative material of this garment provides a very good elasticity and a high sensation of comfort.

 10x1  S - 3XL

SINGER 

**VERNAM**

Soft outdoor windbreaker vest in Softshell fabric with micro fleece lining. 96% polyester, 4% elastane. Front waterproof zip closing. Straight collar. 3 outer pockets. Adjustable wrists. Inside tightening waist with elastic drawstring and stoppers. Colour: blue. Orange contrasts. Advantages : Very light wear. Outdoor profile. The innovative material of this garment provides a very good elasticity and a high sensation of comfort.

 10x1  XXS - 3XL

SINGER 





POLNOR Colour: grey / **POLBLE** Colour: blue / **POLNOIR** Colour: black



Polar fleece jacket in polyester (330-350 gsm). Polyester lining. Zipper closing. Pockets. Inside bottom tightening with drawcords and stoppers. Elasticated waists.

 10x1  S - 3XL (POLNOIR : XXS - 3XL)

SINGER 

**POLAINE**

Wool/Polar fleece jacket. 100% polyester. 520 gsm.
3 outshell pockets : 1 Chest zipped closing pocket
+ 2 inside pockets

 10x1  S - 3XL


SINGER 



POLKANO Colour: black

POLKA Colour: blue

Polar fleece jacket in unlined polyester (270-280 gsm).
Zipper closing. Pockets. Inside bottom tightening with
drawcords and stoppers.
Elasticated wrists.

 10x1  S - 3XL

Prosur 





POLAND

Polar fleece sweater. 100% polyester polar fleece fabric, 330 gsm. High collar with zipper. Reinforcements at shoulders and elbows. Knitted wrists. 1 chest pocket with pen holder. Tightening at waist with drawcords and stoppers. Light weight, convenient and very warm! Colour: grey/black.



10x1



S - 3XL

SINGER


PULBLE

100% acrylic. High collar with zipper. Colour: Navy blue.



10x1



S - 2XL

SINGER



Clothing




LENZING
Modal[®]

SAHO Long sleeves t-shirt - **SABA** Long underpants - **SIRAC** Neck cover - **SAGA** Hood

Sold separately. Composition: 47,5% Modal[®], 47,5% cotton, 5% Spandex. 200 gsm.
Modal[®] is a registered trademark from Lenzing AG company.



10x1



SAHO / SABA : S/M, L/XL, 2XL/3XL

SIRAC / SAGA : One size only

SINGER 

**VEGAS** - Work jacket.

Material: cotton/polyester (60/40%). 300 gsm. 2 press studs. Retro-reflective piping in the front, in the back and on the sleeves. Badge-holder. Multi-purpose keyholder. Waist and wrist adjustment with textile strip and press-stud. 1 inner pocket with zipper. 1 inner pocket with loops for headset. Double stitching. Colour: grey/black. Red contrasts.

PORTO - Work trousers. (grey/black) - **PORTAC** - Work trousers. (black)

Material: cotton/polyester (60/40%). 300 gsm.

Triple overstitching. Elasticated waist on each side. Loops for belt. Fly with zipper and button. Numerous and various pockets in the front and in the back. Easy access free outside compartment pockets for small tools or bolts/nails storage in reinforced fabric (they can be inserted in the main pockets upon end user choice). Retro-reflective piping. Hammer loop. Knee pad pockets in reinforced fabric. Triple overstitching on legs.



CLASS 1



10x1



S - 3XL

**VENTOU** - Work jacket.

Material: polyester/cotton (65/35%) 280 gsm.

Reflective piping. Brushed polyester neck. 2 chest pockets under flap with self grip fastening band. (1 with badge holder). 2 «classic» pockets, 1 inner pocket with zipper. Shoulder pad pockets. Front zipper under flap with self grip fastening band. Adjustables wrists. Colour: Black/grey/red.

PITON - Work trousers.

Material: polyester/cotton (65/35%). 280 gsm.

Triple overstitching. 2 back pockets, 2 «Italian style» pockets 1 phone pocket on the right side with zipper. Fly with zipper and button. 1 phone pocket on the left. 2 convenient pockets with self grip fastening band, badge holder. 1 small pocket with self grip fastening band. Knee pad pockets in reinforced fabric. Large loops for belt. Inside brushed polyester loop, with kidney protector. Colour: Black/Grey/red.



CLASS 1

10x1 S - 3XL

SINGER

**VILNIUS** - Work jacket.

Material: polyester/cotton (65/35%). 245 gsm. Many functional pockets including one pocket for wallet. Front zipper under flap. Adjustable sleeves with textile strip. Colour : Grey/Black/Orange.

PRAGUE - Work trousers.

Material: polyester/cotton (65/35%). 245 gsm. Elasticated waist. Fly with zipper and button. Loops for belt. Many functional pockets including one for mobile phone. Meter pocket. Knee pad pockets. Colour: grey/black/orange.



VILNIUS : S - 3XL
PRAGUE : XS - 3XL

**SPLIT**

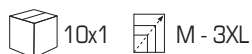
Work bib pant. Knee pads pockets. Elasticated waist. One zip closure pocket. Adjustable shoulder straps. Reinforced stitches. Reflective piping.



CLASS 1

**SINGER** **GOIAS**

Material: Polyester/cotton (65/35%). 245 gsm. Many functional pockets including two zipped pockets and one zipped pocket for wallet. Two wide easy access back pockets. Multi-purpose keyholder. Colour: grey anthracite/black.

**SINGER** **BORA**

Material: polyester/cotton (65/35%). 245 gsm. Elasticated waist. Many functional pockets including one for mobile phone. Colour: grey anthracite/black.

**SINGER**

**VILNAM** - Work jacket.

Material: polyester/cotton (65/35%). 245 gsm. Many functional pockets including one pocket for wallet. Front zipper under flap. Adjustable sleeves with textile strip. Colour : Navy blue/Black.

PRAGMA - Work trousers.

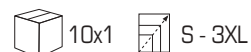
Material: polyester/cotton (65/35%). 245 gsm. Elasticated waist. Fly with zipper and button. Loops for belt. Many functional pockets including one for mobile phone. Meter pocket. Knee pad pockets. Colour: navy blue/black.

**SINGER****VILBLA** - Work jacket.

Material: polyester/cotton (65/35%). 245 gsm. Many functional pockets including one pocket for wallet. Front zipper under flap. Adjustable sleeves with textile strip. Colour : White/Grey/Black.

PRAGBLA - Work trousers.

Material: polyester/cotton (65/35%). 245 gsm. Elasticated waist. Fly with zipper and button. Loops for belt. Many functional pockets including one for mobile phone. Meter pocket. Knee pad pockets. Colour: white/grey/black.

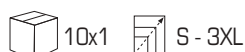
**SINGER**

**VAISON** - Work jacket.

Material: polyester/cotton (65/35%). 245 gsm. Many functional pockets. Front zipper under flap. Adjustable sleeves with textile strip. Colour : Black/Grey/Red.

PRADON - Work trousers.

Material: polyester/cotton (65/35%). 245 gsm. Elasticated waist. Fly with zipper and button. Loops for belt. Many functional pockets including one for mobile phone. Meter pocket. Knee pad pockets. Colour: black/grey/red.

**SINGER****BELT**

Adjustable textile belt. Robust and practical. Length 140 cm. Adjustable. Width 4 cm. Belt in 100% polyester. Strong brushed steel buckle.

**GENPRO**

PVC anti-slip knee pad. EVA Foam interior and injected gel.

**KP2C240**

Fasten with strap and buckle. Height: 240 mm. Width: 147 mm.

**ACCBADGE**

Self-adhesive transparent badge holder (3M™) 105x70mm.





VAR - Work jacket. (ink blue/black) **VARY** - Work jacket. (grey/black)

100% cotton, 300 gsm. Front button fastening with flap. External chest pockets. Mobile phone pocket. 1 pen holder. External pockets at the waist. 2 side pockets. Inside pockets. Cuffs with button.

PAU - Work trousers. (ink blue/black) **PARY** - Work trousers. (grey/black)

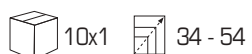
100% cotton, 300 gsm. Closure at the waist with button. Fly with plastic zipper. Belt loops. 2 slanted pockets at the waist. 1 pocket on the left leg, with flap and self-grip closure. 2 back pockets.

SARY - Work bib pant. (grey/black)

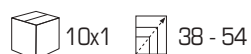
100% cotton. 300 gsm. Many functional pockets including one zip closure pocket. Adjustable shoulder straps. Side opening with buttons.

**JEANS**

100 % cotton denim 13 oz. Straight cut.
Belt loops. Metal zip under flap. 5 classic pockets whose one ticket pocket. Display carton of 10 pieces per size.

**SINGER** **JADAN**

98% cotton, 2% elastane. «Stretch» cut. Belt loops. Metal zip under flap. Black colour. 5 classic pockets whose one ticket pocket. Display carton of 10 pieces per size.

**SINGER**



CAEN

100% cotton. 300 gsm. One zip coverall.
Front plastic zipper closure. 2 chest pockets.
2 lower pockets. 1 back pocket. 1 ruler pocket.
Elastic tightening in the back. Hand side slitting.
Colour: ink blue/black.



SINGER



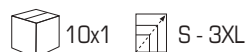
CORDOUE

One zip work coverall. Polyester/cotton (65/35%). 245 gsm.
Many functional pockets. 1 pen compartment.
Pockets for screws/bolts. 1 ruler pocket.
Colour: black/grey, anthracite/orange. Knee pads pockets. Elasticated waist. One zipped wallet pocket.

TYPE 2



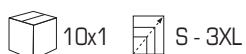
CLASS 1



SINGER

**CAIRO**

Two zips work coverall. Polyester/cotton (65/35%). 245 gsm.
Many functional pockets. 1 pen compartment.
Pockets for screws/bolts. 1 rule pocket.
Colour: black/grey, anthracite/orange. Elasticated waist. One zipped
wallet pocket. Adjustable bottom legs. Multi-purpose keyholder.

**SINGER****COMBIAGRI**

Polyester/cotton (65/35%). 245 gsm.
2 zips work coverall. Double zip. In matching tones stitch.
Two breast pockets. 2 lower pockets. 1 back pocket. 1 rule pocket.
Comfort pleats in the back, elasticated waist. Hand side slitting.
Bottom legs snap fastener. Colour: green.

**Prosur**

**PRATA**

Soft and comfortable polo-shirt. Short sleeves. 100% polyester Cooldry®. Bird eye knitting, 150 gsm. Reinforced sweat tape at collar. Hemmed sleeves and bottom. Exclusive design Singer® Safety.

 25x1  S - 2XL



SINGER 



SURO - Colour: grey/orange.

SURAM - Colour: black/red.

Soft and comfortable t-shirt. Crew neck. Short raglan sleeves. 100% polyester Cooldry®. Bird eye knitting, 150 gsm. Reinforced sweat tape at collar. Elasticated double layer ribbed collar. Hemmed sleeves and bottom. Exclusive Singer® Safety design. Two-coloured.

 25x1  S - 2XL

SINGER 

**LAB**

Colour: white. Work coat 100% twill cotton. 265 gsm.
Preshrunk fabric. Studs. 2 lower pockets. 1 breast pocket.
1 inside pocket. Front studs.

10x1  XXS - 3XL

SINGER 

**LABBLUE**

Colour: navy blue. Work coat. 100% twill cotton. 300 gsm.
Preshrunk fabric. Studs. 2 lower pockets. 1 breast pocket.
1 inside pocket. Front studs.

10x1  XXS - 3XL

SINGER 





VALPA - Protective jacket.

Fire retardant. Fabric in 350 gsm. 98% cotton, 2% antistatic material (carbon). Front zipper with hook-and-loop fastened flap. Outer pockets with hook-and-loop fastened flap. Adjustable wrists with hook-and-loops flap. Stand-up collar. Colour: Blue. Orange bartacks.

PISA - Protective trousers.

Fire retardant. Fabric in 350 gsm. 98% cotton, 2% antistatic material (carbon). Colour: Blue. Orange bartacks. Side slant pockets. 1 outer pocket on left leg with hook-and-loop fastened flap. 1 ruler pocket on right leg. Fly with zipper under flap. Waist clothing with button. Elasticated waist and belt loops.





COSTA

Fire retardant protective coverall. Fabric in 350 gsm. 99% cotton, 1% antistatic material (carbon). Front zipper with hook-and-loop fastened flap. Outer chest pockets with hook-and-loop fastened flap. Side slant pockets. Ruler pocket on right leg. Adjustable wrists with hook-and-loops flap. Elasticated waist in the back. Stand-up collar. Colour: Blue. Orange bartacks.



EN ISO 11611
(Class 1 A1)



EN ISO 11612
(Class A1+ A2, B1 C1 E1)



EN ISO 1149-5

10x1 S - 3XL

SINGER



PYROCAG

Fire retardant protective hood. Fabric in 350 gsm. 98% cotton, 2% antistatic material (carbon). Safety hood covering shoulders. Adjustment with hook-and-loop flap. Original system of hook-and-loops straps on top of the hood for convenient adjustment on welding hood. Colour: blue.



EN ISO 11611
(Class 1 A1+A2)



EN ISO 11612
(Class A1+ A2, B1 C1 E1)



EN ISO 1149-5

10x1

SINGER



PYROMTE

40 cm fire retardant protective sleeves. Fabric in 350 gsm. 98% cotton, 2% antistatic material (carbon). Elastic under hem at wrist. Adjustment at elbow with hook-and-loops flap. Colour: blue.



EN ISO 11611
(Class 1 A1+A2)



EN ISO 11612
(Class A1+ A2, B1 C1 E1)



EN ISO 1149-5

10x10

SINGER



SOUDAV - Welding jacket. (All split) **SOUDAVEP** - Welding jacket. (Back in fire retardant fabric.)

Cow split leather. Long sleeves. Fastening with snaps under leather flap. Length 80 cm. Aramid yarn.

SOUDAP - Welding trousers.

In split cow leather. Opening on each side at waist. Fastening with self grip fastening. Inside integrated adjustable leather belt. One pocket on the left side of the leg. Aramid yarn.

SOUDAV / SOUDAP



EN ISO 11611
(Class 1/2 A1)

SOUDAVEP



EN ISO 11611
(Class 1 A1)



5x1



SOUDAV / SOUDAVEP : M - XL
SOUDAP : M - L

Prosur

**SOUDAT9070**

Cow split leather apron. Fasten around the neck with strap and under arms with adjustable belt. 90 x 70 cm. Aramid yarn.

**SOUDAB** - Split leather bolero.

Long sleeves. Fastening with press-studs (under leather flap). Adjustable on the bolero apron with press studs. Aramid yarn.

SOUDAT6060 - Bolero apron in split leather.

60 x 60 cm, fastening with straps and buckle. Adjustable on the bolero with press studs. Aramid yarn.

**SOUDAC**

Cow split leather hood. Front opening with 3 press studs under leather flap. Large leather flap covering the shoulders. Aramid yarn. Class 1/2 A1.

**SOUDAM**

Cow split leather sleeve. Elasticated on both sides. Useful length: 40 cm (+/- 2 cm). Aramid yarn.

**SOUDAG**

Cow split leather leggings. Height 30 cm. Strap and buckle fastening on sole and self grip fastening on side. Aramid yarn. Sold by pair.





VPLWINDY Colour: green

VPLRAINY Colour: navy blue

VPLOCEAN Colour: yellow

Comfort rainsuits Polyurethane/PVC. Polyurethane/PVC set (jackets + trousers) on polyester liner. Jacket with attached hood in collar. Front zip under studded flap. 2 front pockets with flap. Ventilated back. Drawcords at waist. Trousers with fly-front with snap stud. Drawcords at waist + elastic tightening. Bottom legs adjustment with snap studs. Hand side slitting. Taped seams.



10x1



M - 3XL

SINGER



COMBIPUV

Comfort coveralls. Polyurethane/P.V.C on polyester liner. Double watertight zip, under flap with self-grip closing. Right zip until bottom of the feet. Bottom legs adjustment with snaps. Fixed concealed 3 pieces hood rolled inside collar, drawstring, and self-grip closing. Elastic cuffs windbreaker under the sleeves. Taped seams. Colour: green.



10x1



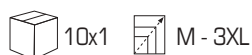
M - 2XL

SINGER

VPLARMORV Colour: green**VPLARMORM** Colour: navy blue**VPLARMORJ** Colour: yellow

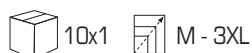
Soft rainsuits Polyester/PVC.

Soft polyester/PVC set (jacket + trousers). Jacket with attached hood and drawcords. Front zipper. Pockets. Ventilated back. Elasticated waist trousers. Hand side slitting. Taped seams.

**SINGER** **VPLMANV** Colour: green**VPLMANJ** Colour: yellow

Soft raincoats Polyester/PVC.

Front zipper closure under studded flap. Attached hood with drawcords, rolled into collar. 2 outer waist pockets. Ventilated back. Ventilation under arms with eyelets. Wrists adjustment with snap studs. Taped seams.

**SINGER** **VPLOSLOM** Colour: navy blue**VPLOSLOV** Colour: green

Soft coverall Polyester/PVC. Double zipper closure. Attached hood rolled in collar. 2 chest pockets, 2 waist pockets. Taped seams.

**SINGER** 



[VERY STRONG]

TAB1290PUB Colour : white

TAB1290PUV Colour : green

Bib apron. Polyurethane/PVC.
Dimensions 120 x 90 cm.



10x1

SINGER



TABPB1070 Colour : white 100 x 70 cm

TABPB1290 Colour : white 120 x 90 cm

TABPV1070 Colour : green 100 x 70 cm

TABPV1290 Colour : green 120 x 90 cm

Bib apron. PVC/polyester/PVC.



x20

Prosup



TABCHB1070

Bib apron. Cotton fabric. Dimensions 100 x 70 cm. Colour: blue.



5x10

SINGER



High
visibility



PARINA Colour: yellow / navy blue - **PARINO** Colour: orange / navy blue - **PARIRO** Colour: red / black

4x1 high visibility garment. Garment set made up of two different pieces. With retro-reflective tape. Parka and bodywarmer with zip access for print. Inside and outside pockets. Concealed hood rolled inside collar. Front zip under flap with hook-n-loop fasteners. Outshell: polyester Oxford 300 D with polyurethane (PU) coating. Polyester lining. Insulation with high-visibility detachable vest (with detachable coated long sleeves). With inner and outer pockets. Outshell polyester Oxford 300 D with polyurethane coating. Inside: Polar fleece 280 gsm.



Parka

Bodywarmer
(with the sleeves)Bodywarmer
(without the sleeves)3
1

S - 4XL (PARIRO : S - 3XL)



PIAMA Colour: yellow / navy blue - **PIAMO** Colour: orange / navy blue

Bad weather high visibility garment set made up of two different pieces.

Outshell (Parka and detachable vest) : outshell in polyester (Oxford 300 D with polyurethane coating).

Detachable long sleeves : Polar fleece 280 gsm. With retro-reflective tape. Inside and outside pockets. Concealed hood rolled inside collar.

Front zip fastening under studded flap. Lining : Polyester (Parka) / Polar fleece (detachable vest)

Features a zip access for print.



Parka



Bodywarmer
(with the sleeves)



Bodywarmer
(without the sleeves)



1

10x1 S - 4XL

SINGER

High
visibility



PALERME Colour: yellow / navy blue

PALOMA Colour: orange / navy blue

Bad weather high visibility garment with retro-reflective tape. Inside and outside pockets. Concealed hood rolled inside collar. Knitted storm cuffs. Two ways front zip fastening under studded flap. Outshell: polyester Oxford 300 D with polyurethane coating. Lining and padding: polyester. Features a zip access for print.



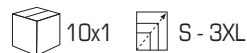
SINGER



PARDA Colour: yellow / navy blue

PARDO Colour: orange / navy blue

Two-tone foul weather high visibility parka. Outshell: polyester Oxford 300 D with polyurethane coating. Polyester lining. Polyester padding. With retro-reflective tape. Inside and outside pockets. Concealed hood rolled inside collar. Front zipper under flap with hook-n-loop fasteners. Features a zip access for print.



SINGER



BLAVIA Colour: yellow / navy blue - **BLAVIO** Colour: orange / navy blue

Foul weather high visibility bomber jacket with grey retro-reflective tapes. Inside and outside pockets. Concealed hood rolled into collar. Knitted storm cuffs. Front zip fastening under studded flap and self-grip fastening. Elasticated waist. Polyester Oxford 300D with polyurethane (PU) coating. 280 gsm (+/-10g) fleece polyester polar lining.



10x1 S - 3XL

SINGER



VIENA Colour: yellow - **VIENO** Colour: orange

High visibility jacket with retro-reflective tapes. Inside and outside pockets. Detachable PU coated sleeves. Front zipper fastening. Outshell: polyester Oxford 300D with polyurethane (PU) coating. Lining Polyester fleece polar 280 gsm.



(With sleeves)



(Without sleeves)



1





VEROME Colour: yellow - **VEROMO** Colour: orange

Foul weather high visibility jacket/bodywarmer with retro-reflective tapes. Inside and outside pockets. Detachable polar sleeves. Knitted wrists. Front zipper. Outshell: polyester Oxford 300 D with polyurethane coating. 100% polyester polar fleece lining, 280 gsm. Features a zip access for print.



(With sleeves)



(Without sleeves)

10x1 S - 3XL

SINGER

High
visibility



VILMA Colour: yellow / navy blue - **VILMO** Colour: orange / navy blue

High visibility Softshell jacket with detachable hood and sleeves. Softshell in 100% polyester with TPU coating.

Inside fleece finish. Removable storm hood by zipper. Drawstring. Removable sleeves with zipper. Retro-reflective tapes. Central waterproof zip fastening. 2 outside chest pockets with flap. 2 outside rest pockets with zip. 1 pocket on the left sleeve. 2 inner pockets at bottom.

Warm knitted wrists under the sleeves.



10x1 S - 3XL

SINGER



High
visibility

POLGA Colour: yellow / navy blue - **POLGO** Colour: orange / navy blue

High visibility two-tone lined jacket with retro-reflective tapes.
Knitted storm cuffs. Front zip fastening. Elasticated waist. 2 slant pockets with zipper.
Outshell: soft polyester Polar fleece. 300 gsm (+/- 10g). Lining: polyester. Grey tapes.



3



EN14058

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X
X
X
X



10x1



S - 3XL

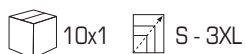
SINGER


VITA (yellow / navy blue) **VITO** (orange / navy blue)

Work jacket. Front zipper under flap. 4 outer pockets + 1 pen holder. 2 inner pockets. Adjustable wrists with self-grip band. Retro-reflective tapes. Material: 60% cotton/40% polyester. 280 gsm.

PILA (yellow / navy blue) **PILO** (orange / navy blue)

Work trousers. Elasticated waist on each side. Loops for belt. Fly with zipper and button. Numerous and various pockets in the front and in the back. Knee pads pockets. Retro-reflective tapes. Material: 60% cotton / 40% polyester. 280 gsm.

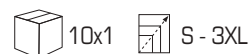

SINGER

VARNA (yellow / navy blue) **VARNO** (orange / navy blue)

Work Jacket. Front zipper under flap. 4 outer pockets. Adjustable wrists with self-grip band. Retro-reflective tapes. Material : 65 % polyester / 35 % cotton. 245 gsm.

PUNA (yellow / navy blue) **PUNO** (orange / navy blue)

Work Trousers. Elasticated waist on each side. Loops for belt. Fly with zipper and button. 2 pockets in the front, 1 pocket in the back. Knee pads pockets. Retro-reflective tapes. Material : 65 % polyester / 35 % cotton. 245 gsm.




SINGER



**BILBA** Colour: yellow - **BILBAO** Colour: orange

High visibility shorts. 65 % polyester / 35 % cotton. 245 gsm.
2 horizontal retro-reflective tapes around legs. Buttons closing





 10x1  S - 3XL

SINGER **SUZE** Colour: yellow - **SUZO** Colour: orange

High visibility t-shirt. 100% polyester bird eyes fabric with wicking finishing (150 gsm). 2 retro-reflective tapes around the body.



 25x1  S - 2XL

SINGER **PAULA** Colour: yellow - **PAULO** Colour: orange

High visibility polo-shirt. 100% polyester bird eyes fabric with wicking finishing (150 gsm). 2 horizontal stretchables retro-reflective tapes around body. 3 buttons closing. Long sleeves.





 25x1  S - 3XL

SINGER **PUNTA** Colour: yellow - **PUNTO** Colour: orange

High visibility polo-shirt. 100% polyester bird eyes fabric with wicking finishing (150 gsm). 2 horizontal retro-reflective tapes around body. 3 buttons closing. Short sleeves.





 25x1  S - 3XL

SINGER **POLMA** Colour: yellow - **POLMO** Colour: orange

High visibility polo-shirt. 55% cotton - 45% polyester. 170 gsm.
2 Grey retro-reflective tapes. Flexible segmented bands for a best confort



 25x1  S - 3XL

SINGER 



VILA Colour: yellow / navy blue - **VILO** Colour: orange / navy blue

Bad weather high visibility garment set made up of two different pieces. With retro-reflective tape. Rain coat: Pockets. Concealed hood rolled inside collar. Front zip fastening under studded flap. Outshell: polyester Oxford 300 D with polyurethane coating. Polyester lining. Rain trousers: Ousthell polyester Oxford 300 D with polyurethane coating. Elasticated waist. Fly.



Jacket



Trousers



3

1



10x1



M - 4XL

SINGER



PIVA Colour: yellow / navy blue - **PIVO** Colour: orange / navy blue

Full weather high visibility garment. With retro-reflective tape. Suspender pants. Ousthell polyester Oxford 300 D with polyurethane coating. Elasticated waist. Front fly with press-stud.



1



3

1



10x1



S - 3XL

SINGER





GANA Colour: yellow

GAÑO Colour: orange

High visibility jacket. Retro-reflective tapes. Front zipper. Outer pockets. Rest pockets. 1 inner pocket. Features a zip access for print. Outshell in 100% polyester Oxford 300 D PU coated. Polar fleece lining, 260 gsm.



10x1



S - 3XL

SINGER



GARA Colour: yellow

GARO Colour: orange

High visibility polyester vest. Zip front fastening. Two front hip pockets with gusset and self-grip fastening flaps. 2 hand rest pockets. Mobile phone & pen pockets. Clear plastic badge holder. Black plastic D clip ring. Grey retro-reflective tapes.



50x1



S - 3XL

SINGER

VPLGILJ Colour: yellow**VPLGILO** Colour: orange

High visibility polyester waistcoat.
Front self-grip fastening. Grey retro-reflective tapes.

**SINGER** **GILAIR** Colour: yellow**GILAIR** Colour: orange

High visibility waistcoat.
100% polyester, with ventilated upper part
2 Grey retro-reflective tapes. Badge holder.

**SINGER** **GILA** Colour: yellow**GILO** Colour: orange

High visibility waistcoat. 100% polyester.
2 grey retro-reflective tapes.

**SINGER** 



BRASSJ Colour: yellow

BRASSO Colour: orange

High visibility polyester armband PU coated. Height: 90 mm.
3M™ retro-reflective tape in 30 mm height. Self-grip fastening. Not a PPE.

EN13356



10x10

SINGER



TRSGN1

Warning triangle, strong and resistant with built-in heavy duty stabilising metal base. Supplied in plastic carrying case. Conformity E27*27R-03*1003*00



20x1



SGNCONE

Red and white roadsign cone in polyethylene.
Height: 50 cm.



10x1



ACCBADGE

Self-adhesive transparent badge holder (3M™) 105x70mm.



50x10



BALPL1

Free standing floor sign. «Danger sol glissant.» (text in french language)



10x1





**In the back,
the harness features
tools holdings**

Shoulder straps: fully padded shoulder straps with comfortable knitted mesh pads for better shock absorption and air circulation.

Front attachment: very ergonomically placed sternal D Ring, to be used as front attachment point for fall protection when using a guided type fall arrester while climbing or entering a confined space.

Ventral D-ring: provided to be used for rope access, rescue and many other applications making the harness multipurpose.

Ventral D-ring: provided to be used for rope access, rescue and many other applications making the harness multipurpose.



ID plate: Dorsal webbing.
Holding cross plate maintains the D-ring in place even after a fall.

Elastic textil buckles: especially made to hold the top strap during adjustment.

Automatic buckles: extremely easy to use with single hand adjustment. Made from top grade corrosion resistant steel, these buckles provide a comfortable and snug fit.

Lanyards keepers: specially designed keepers on both sides for safely attaching the free connector end of twin legged lanyards PN351 (be careful these lanyards keepers must not be used as an attachment point for the fall protection system).

Combination buckles: with a unique pull-up grip, these buckles are very easy to use, can be tightened/loosened with single hand. They provide very comfortable adjustment, keeping the harness snug fit to the body.

Thigh straps: the distinctively placed fully padded straps with automatic buckles for easy adjustment. The knitted mesh net used in the pads gives better shock absorption and maintains proper air circulation.

HARRICANA 3

EN 361, EN 358, EN 813





Dorsal webbing holding cross plate maintains the D-ring in place even after a fall

2
POINTS



Unique aesthetic stitch pattern for enhanced stitching strength with smart styling



Automatic buckles

Fully padded shoulder straps with comfortable knitted mesh pads for better shock absorption and air circulation..

1 front attachment: 2 ideally positioned textile loops to be used as front attachment point for fall protection.

1 back attachment point: dorsal webbing holding cross plate maintains the D-ring in place even after a fall. Automatic buckles: extremely easy to use with single hand adjustment. Made from top grade corrosion resistant steel, these buckles provide a comfortable and snug fit. Elastic loops: specially designed to retain the excess strap while adjustment.

Triangle ring for lanyards keepers: specially designed keepers on both sides for safely attaching the free connector end of twin legged lanyards PN351. (be careful these lanyards keepers must not be used as an attachment point for the fall protection system).

Thigh straps: the distinctively placed fully padded straps with automatic buckles for easy adjustment. The knitted mesh net used in the pads gives better shock absorption and maintains proper air circulation.



HARRICANA 1

EN 361



5x1

SINGER



PN56

1 dorsal and one sternal (chest) D-ring for fall arrest. 1 ventral D-Ring for rope access work. 2 lateral D-Rings for work positioning. Full body harness with polyester strap of 44 mm. Soft padding on shoulder, waist & leg straps. Specially designed for comfort and hard access environments.

EN 361, EN 358, EN 813



2
POINTS

+

Work
positioning**PN42**

2 attachments: one dorsal (D-ring) on chest (textile loops).

Full body harness with polyester strap of 44 mm. Combined with the waist belt PNO1. Adjustable shoulder and thigh straps.

EN 361, EN 358



10x1

SINGER

2
POINTS**PN24**

2 attachments: dorsal and chest (by D ring).
Full body harness with polyester strap of 44 mm.
Adjustable shoulder and thigh straps. With sit strap.

EN 361



20x1

SINGER 2
POINTS**PN12**

2 attachments: one dorsal D-ring, one chest textile loops.
Full body harness with polyester strap of 44 mm.
Adjustable thigh straps. With sit strap.

EN 361



20x1

SINGER 1
POINT**PN11**

1 dorsal attachment D-ring.
Full body harness with polyester strap of 44 mm. Adjustable thigh straps. With sit strap.

EN 361



20x1

SINGER

**KITCOUV**

Fall protection set including: Harness
PN12 Steel fall arrester PN2000A
Anchorage line PN910 Karabiner PN112
Carriage bag VERTISAC

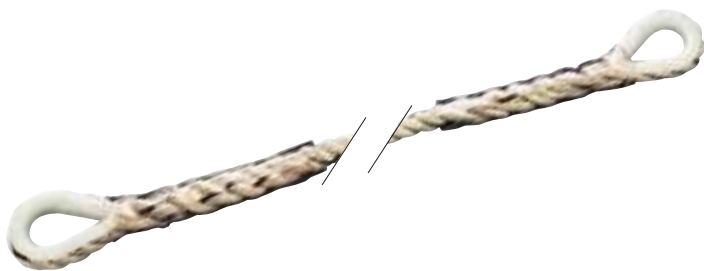
**SINGER** **KITH03**

Fall protection set including: Harness
PN11 2 Karabiners PN112
Lanyard with energy absorber PN301
Carriage bag SACKIT.

**SINGER** **KITNACEL**

Fall protection set including:
Lanyard PN289B, Harness PN11, Bag

**SINGER**



PN201B : Length : 1 m - **PN201** : Length : 1,50 m.

Lanyard in polyamide. Thimbled loops on both ends.
Made up of 12 mm diameter.

EN 354



SINGER



PN281

Braided polyamide lanyard. Thimbled loops on both ends.
11 mm diameter. Length: 1,50 m.

EN 354



SINGER



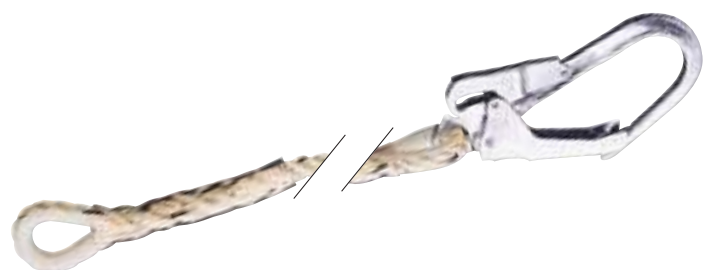
PN289B : Length : 1 m - **PN289** : Length : 1,50 m.

Polyamide braided lanyard.
PN121 hook at one end. PN131 at the other end.

EN 354



SINGER



PN206

Lanyard in polyamide. One end with thimbled loop,
other end with hook PN131. Diameter : 12 mm.
Length: 1.50 m.

EN 354



SINGER



PN351

Double lanyard (rope) in polyamide, with energy absorber
and karabiner (PN300+PN112)
and PN131 hook at each end. Length: 1,50 m.

EN 355



SINGER



PN231

2 braided polyamide lanyard (rope).
Length: 1.50 m.
PN112 karabiner at one end. PN131 hooks at other ends.

EN 354



SINGER

PN301

Lanyard in polyamide (made up of 12mm diameter, 3 strand polyamide rope) with energy absorber. The splices are protected with a sleeve. One end with thimble loop, other end with stitched loop. Length: 1,50 m

EN 355

**SINGER** **PN300**

Energy absorber made up of 44 mm wide polyester webbing and shrink wrapped.

EN 355

**SINGER** **PN321**

Polyester webbing lanyard with energy absorber PN300. Loop stitched at the ends. Width: 44 mm. Length: 1.50 m.

EN 355

**SINGER** **PN2002**

Lanyard in polyamide (made up of 12 mm diameter, 3 strand polyamide rope) with energy absorber. The splices are protected with a sleeve. One end with thimble loop, other end with stitched loop. Length: 1.50 m.

EN 360

**SINGER** 

**PN241**

Work positioning lanyard. Adjustable length (maximum length 2.00 meters, with karabiners). Ring type adjuster of forged alloy steel. Easy to connect steel karabiners at both ends. Made of 14 mm diameter polyamide. 3 strand rope. Equipped with 2 karabiners PN112.

EN 358

**SINGER** **[AUTOMATIC GRIP ADJUSTER]****PN242**

Work positioning lanyard. Automatic grip adjuster for length adjustment. 14 mm diameter. 3 strand polyamide rope. Maximum length: 2 meters. Equipped with 2 karabiners PN112.

EN 358

**SINGER** **PN2000**

Steel fall arrester. Clasp on to flexible anchorage line of 14 mm. With screw locking steel karabiner.

EN 353-2

**SINGER**

Ring diameter :
50mm

**PN2007AP**

Fall arrest. Claps on to the 12 mm braided lanyard PN910K, PN920K or on the 14 mm spliced rope PN910 or PN920. With anti-panic system. To be attached by screw alloy steel karabiner.

EN 353-2

**SINGER**



PN910 - Length 10 m **PN920** - Length 20 m

Anchorage line. 14 mm diameter spliced polyamide rope. One side thimble loop. Other side end stop knot.

EN 353-2



PN910 : 10x1 / PN920 : 5x1

SINGER 



PN910K - Length 10 m. **PN920K** - Length 20 m.

Anchorage line. Braided polyester lanyard (rope). Diameter : 12 mm. One side thimble loop. Other side end stop knot.

EN 353-2



PN910K : 20x1 / PN920K : 10x1

SINGER 

**PN112**

Alloy steel screw locking karabiner.
Self closing and manual locking type. Opening 18 mm.

EN 362 Class B et M



10x10

SINGER

**PN116**

Aluminium screw locking karabiner.
Self closing and manual locking type. Opening 22 mm.

EN 362 Class B



20x10

SINGER

**PN117**

Aluminium quarter turn locking karabiner.
Opening 21 mm.

EN 362 Class B



10x10

SINGER

**PN131**

Safety hook. Galvanized steel
Opening PN131: 50 mm.

EN 362 Class T 23kN



25x1

SINGER

**PN136**

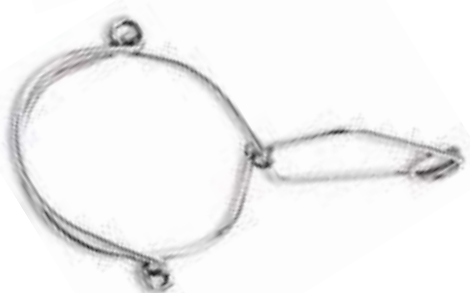
Safety hook. Aluminium
Opening PN136: 60 mm.

EN 362 Class T 22,7kN



25x1

SINGER

**PN141**

Anchorage hook in stainless steel.
Opening: 140 mm.

EN 362 Class A



30x1

SINGER

PN3000BC

Temporary horizontal anchorage life line made up of 30 mm polyester webbing. Equipped with ratchet tensioner. Available length: 20 meters. Both the ends are provided with connectors PN113 + webbing PN804. The whole system is supplied in a bag. Can be used by two peoples simultaneously.

EN 795 (Type B+C) CEN/TS16415 (Type B+C)



x1

SINGER **PN807D**

Anchorage sling in polyester textile webbing. Length 2,00 m

EN 795 (Type B)



20x1

SINGER **PN903**

Carriage bag in nylon + polypropylene. With badge holder. (45 x 19 x 19 cm).



50x1

**VERTISAC1**

Shoulder bag with badge holder and mobile phone pocket.



40x1

**SACKIT**

Carriage bag (45 x 32,5 cm).



250x1







SINGER®
safety



Bary
(S3 SRC)

Baryo
(S3 SRC)

Boca
(S1-P SRC)

Genes
(S1-P SRC)

Rodi
(S1-P SRC)

Foggia
(S3 SRC)

Lauro
(S3 SRC)

Trieste
(S3 SRC)

JOBS	Construction								
	Finishings								
	Industry								
	Welding								
	Food and medical sectors								
	Logistics								
ADVANTAGES	Environment								
	Weight*								
	E.F.P. tongue								
	Ergonomic insole								
	Comfort pack								
	Clim pack								



E.F.P. tongue (Ergonomic-Foam-Protect)

- + Limits compression points
- + Stabilises lacing



Ergonomic sole (Preformed PU)

- + Removable / Fast drying / Antistatic
- + Foot arch support
- + Reduces shocks with PU and energy absorbing heel



Parma (S3 SRC) **Roma** (S3 SRC) **Astro** (S3 SRC) **Cadix** (S1-P SRC) **Albi** (S1-P SRC) **Etna** (S3 HRO SRC) **Milan** (S3 HRO SRC) **Imola** (S3 SRC) **Padova** (S3 SRC) **ST400** (S1-P SRC) **Vigo** (S2 SRC)

600g	620g	600g	600g	550g	610g	670g	600g	580g	620g	

(*) Approximative weight of a shoe (smaller size)



Comfort pack

- + Ergonomic insole + E.F.P. tongue
- + More comfort
- + Less tiring during daily use



Clim pack

- + Lateral ventilation system
- + Ventilated insole
- + Optimised shoe ventilation
- + Provide more comfort in hot environment



**ANTIPERFORATION
FLEXIBLE TEXTILE**



BARY

UPPER : water repellent Nubuck leather, blue colour, red stitching. **LINING** : textile. **TONGUE** : comfortable padding.

TOE CAP : composite shockproof 200J. **INSOLE** : In EVA fabric, perforated, antistatic and removable.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



36 - 47

SINGER



**ANTIPERFORATION
FLEXIBLE TEXTILE**



BARYO

UPPER : high cut, water repellent Nubuck leather, blue colour, red stitching. **LINING** : textile. **TONGUE** : comfortable padding.
TOE CAP : composite shockproof 200J. **INSOLE** : In EVA fabric, perforated, antistatic and removable.
PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1 36 - 47

SINGER



**ANTIPERFORATION
FLEXIBLE TEXTILE**



BOCA

UPPER : split suede leather and ventilated polyester mesh, grey colour, orange stitching. **LINING** : textile. **TONGUE** : comfortable padding.
TOE CAP : composite shockproof 200J. **INSOLE** : In EVA fabric, perforated, antistatic and removable.
PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.
SHOE : metal free, sold with an extra pair of grey laces.

EN ISO 20345 S1-P SRC



10x1 36 - 47

SINGER



**ANTIPERFORATION
FLEXIBLE TEXTILE**



E.F.P TONGUE



CLIM PACK



GENES

UPPER : split suede leather and ventilated polyester mesh, black and orange colour, grey and orange stitching. **LINING** : textile.

TONGUE : E.F.P. **TOE CAP** : composite shockproof 200J. **INSOLE** : In EVA fabric, perforated, antistatic and removable.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density. **SHOE** : metal free.

EN ISO 20345 S1-P SRC



10x1 39 - 47

SINGER



LANGUETTE E.F.P



CLIM PACK



RODI

UPPER : split suede leather and ventilated polyester mesh, black and grey colour, grey stitching. **LINING** : textile. **TONGUE** : E.F.P.

TOE CAP : composite shockproof 200J. **INSOLE** : removable and ventilated PU. **PIERCE RESISTANT MIDSOLE** : steel.

SOLE : polyurethane double-density. **SHOE** : sold with an extra pair of grey laces.

EN ISO 20345 S1-P SRC



10x1 37 - 47

SINGER



**ANTIPERFORATION
FLEXIBLE TEXTILE**



E.F.P TONGUE



ERGONOMIC INSOLE



COMFORT PACK



FOGGIA

UPPER : high cut, water repellent full grain leather, black colour, grey stitching. **LINING** : textile. **TONGUE** : E.F.P.

TOE CAP : glass fibers shockproof 200J. **INSOLE** : ergonomic in preformed PU.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1 39 - 47

SINGER



ANTIPERFORATION
FLEXIBLE TEXTILE



LAURO

UPPER : high cut, water repellent full grain leather, black colour, grey and red stitching. **LINING** : textile. **TONGUE** : gusset.
TOE CAP : glass fibers shockproof 200J. **INSOLE** : In EVA fabric, perforated, antistatic and removable.
PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1



39 - 47

SINGER



TRIESTE

UPPER : high cut, water repellent leather, black colour, black stitching. **LINING** : textile. **TONGUE** : gusset.
TOE CAP : steel shockproof 200J. **INSOLE** : In EVA fabric, perforated, antistatic and removable.
PIERCE RESISTANT MIDSOLE : steel. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1



39 - 47

SINGER



ANTIPERFORATION
FLEXIBLE TEXTILE



ROMA

UPPER : high cut, water repellent pigmented leather, black colour, orange stitching. **LINING** : textile.

TONGUE : gusset. **TOE CAP** : composite shockproof 200J. **INSOLE** : In EVA fabric, antistatic and removable.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1 39 - 47

SINGER



ANTIPERFORATION
FLEXIBLE TEXTILE



PARMA

UPPER : water repellent pigmented leather, black colour, orange stitching. **LINING** : textile. **TONGUE** : gusset.

TOE CAP : composite shockproof 200J. **INSOLE** : In EVA fabric, antistatic and removable.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1 39 - 47

SINGER



**ANTIPERFORATION
FLEXIBLE TEXTILE**



E.F.P TONGUE



ERGONOMIC INSOLE



COMFORT PACK



ASTRO

UPPER : high cut, water repellent full grain leather, brown and black colour, grey stitching. **LINING** : textile. **TONGUE** : E.F.P.
TOE CAP : glass fibers shockproof 200J.. **INSOLE** : ergonomic in preformed PU. **PIERCE RESISTANT MIDSOLE** : high tenacity textile.
SOLE : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1 39 - 47

SINGER



**ANTIPERFORATION
FLEXIBLE TEXTILE**



E.F.P TONGUE



ERGONOMIC INSOLE



COMFORT PACK



CADIX

UPPER : high cut, split suede leather and ventilated polyester mesh, grey and blue colour, grey stitching. **LINING** : textile.

TONGUE : E.F.P. **TOE CAP** : glass fibers shockproof 200J. **INSOLE** : ergonomic in preformed PU.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S1-P SRC



10x1 39 - 47

SINGER



**ANTIPERFORATION
FLEXIBLE TEXTILE**



E.F.P TONGUE



ERGONOMIC INSOLE



COMFORT PACK



ALBI

UPPER : split suede leather and ventilated polyester mesh, grey and blue colour, grey stitching. **LINING** : textile.

TONGUE : E.F.P. **TOE CAP** : glass fibers shockproof 200J. **INSOLE** : ergonomic in preformed PU.

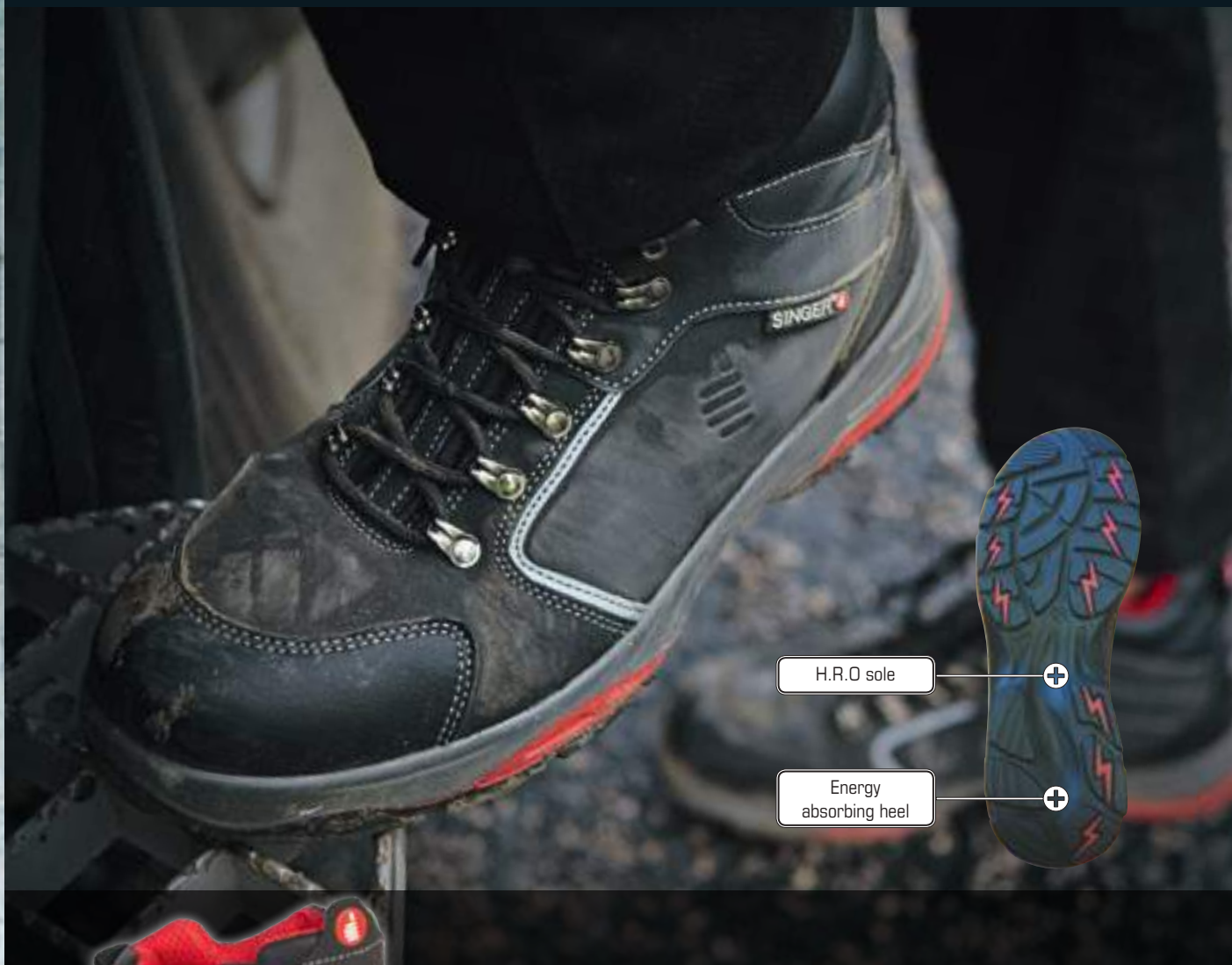
PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S1-P SRC



10x1 39 - 47

SINGER



H.R.O sole

Energy
absorbing heel**ANTIPERFORATION
FLEXIBLE TEXTILE****E.F.P TONGUE****ERGONOMIC INSOLE****COMFORT PACK**

MILAN

UPPER : high cut, water repellent coated Nubuck leather, black colour, grey stitching. **LINING** : textile. **TONGUE** : E.F.P.

TOE CAP : glass fibers shockproof 200J. **INSOLE** : ergonomic in preformed PU.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SEMELE** : nitrile rubber, H.R.O.

EN ISO 20345 S3 HRO SRC



10x1



39 - 47

SINGER



ANTIPERFORATION
FLEXIBLE TEXTILE



ERGONOMIC INSOLE



ETNA

UPPER : high cut, water repellent coated Nubuck leather, black colour, black stitching. **LINING** : textile.

TONGUE : gusset with protective leather cover and velcro. **TOE CAP** : glass fibers shockproof 200J.

INSOLE : ergonomic in preformed PU. **PIERCE RESISTANT MIDSOLE** : high tenacity textile. **SOLE** : nitrile rubber H.R.O.

EN ISO 20345 S3 HRO SRC



10x1 39 - 47

SINGER



ST280

UPPER : high cut, pigmented leather, black colour, black stitching. **LINING** : textile.

TONGUE : gusset with protective leather cover and velcro. **TOE CAP** : steel shockproof 200J.

INSOLE : In EVA fabric, antistatic and removable. **PIERCE RESISTANT MIDSOLE** : steel. **SOLE** : polyurethane double-density.

EN ISO 20345 S1-P SRC



10x1 39 - 47

SINGER



ANTIPERFORATION
FLEXIBLE TEXTILE



IMOLA

UPPER : high cut, water repellent full grain leather, black colour, black stitching. **LINING** : textile. **TONGUE** : gusset.

TOE CAP : composite shockproof 200J. **INSOLE** : In EVA fabric, antistatic and removable.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1 39 - 47

SINGER



ANTIPERFORATION
FLEXIBLE TEXTILE



PADOVA

UPPER : water repellent full grain leather, black colour, black stitching. **LINING** : textile. **TONGUE** : gusset.

TOE CAP : composite shockproof 200J. **INSOLE** : In EVA fabric, antistatic and removable.

PIERCE RESISTANT MIDSOLE : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1 39 - 47

SINGER



ST400

UPPER : mid cut, split suede leather, blue navy colour, grey stitching. **LINING** : textile. **TONGUE** : gusset.
TOE CAP : steel shockproof 200J. **INSOLE** : In EVA fabric, antistatic and removable. **PIERCE RESISTANT MIDSOLE** : steel.
SOLE : polyurethane double-density.

EN ISO 20345 S1-P SRC



10x1 37 - 47

SINGER



VIGO

UPPER : microfibre, white colour, white stitching. **LINING** : textile. **TONGUE** : microfibre. Elastic fastening.
TOE CAP : steel shockproof 200J. **INSOLE** : removable and complete.. **SOLE** : polyurethane double-density.

EN ISO 20345 S2 SRC



10x1 36 - 47

SINGER



GR35

UPPER : high cut, water repellent pigmented leather, black colour, grey stitching. **LINING** : textile. **TONGUE** : gusset.
TOE CAP : steel shockproof 200J. **INSOLE** : removable and complete. **PIERCE RESISTANT MIDSOLE** : steel.
SOLE : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1



39 - 47

Prosar



GR25

UPPER : water repellent pigmented leather, black colour, grey stitching. **LINING** : textile. **TONGUE** : gusset.
TOE CAP : steel shockproof 200J. **INSOLE** : removable and complete. **PIERCE RESISTANT MIDSOLE** : steel.
SOLE : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1



39 - 47

Prosar



GR10

UPPER : high cut, pigmented leather, black colour, grey stitching. **LINING** : textile. **TONGUE** : gusset. **TOE CAP** : steel shockproof 200J. **INSOLE** : removable and complete. **PIERCE RESISTANT MIDSOLE** : steel. **SOLE** : polyurethane double-density.

EN ISO 20345 S1-P SRC



10x1 37 - 47

Prosur



GR20

UPPER : pigmented leather, black colour, grey stitching. **LINING** : textile. **TONGUE** : gusset. **TOE CAP** : steel shockproof 200J. **INSOLE** : removable and complete. **PIERCE RESISTANT MIDSOLE** : steel. **SOLE** : polyurethane double-density.

EN ISO 20345 S1-P SRC



10x1 37 - 47

Prosur



**ANTIPERFORATION
FLEXIBLE TEXTILE**



SPECIAL COLD



BREME

UPPER : water repellent pigmented leather, black colour, grey stitching. **LINING** : fur acrylic. **TOE CAP** : composite shockproof 200J. **INSOLE** : In EVA fabric, antistatic and removable. **PIERCE RESISTANT MIDSOLE** : high tenacity textile. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



5x1 39 - 47

SINGER



SPECIAL COLD



GR40

UPPER : water repellent pigmented leather, black colour, grey stitching. **LINING** : acrylic fur. **TOE CAP** : steel shockproof 200J. **INSOLE** : In EVA fabric, antistatic and removable. **PIERCE RESISTANT MIDSOLE** : steel. **SOLE** : polyurethane double-density.

EN ISO 20345 S3 SRC



10x1 39 - 47

Prosur

**SPECIAL COLD**

BORN

BOOT : PVC, black colour. **LINING :** black polyester fur. **TOE CAP :** steel shockproof 200J.
PIERCE RESISTANT MIDSOLE : steel. **SOLE :** PVC and nitrile.

EN ISO 20345 S5 SRC



6x1 39 - 47

SINGERO



BOTSECU

BOOT : PVC, green colour. **LINING** : viscose. **TOE CAP** : steel shockproof 200J.
PIERCE RESISTANT MIDSOLE : steel.

EN ISO 20345 S5 SRC



 6x1  39 - 47

SINGER 



BOTAGRO

BOOT : PVC, blue and white colour. **LINING** : viscose.
TOE CAP : steel shockproof 200J.

EN ISO 20345 S4 SRC



 6x1  39 - 47



SINGER 



BOTPVC

BOOT : PVC, green colour. **LINING** : viscose.

EN ISO 20347 OB SRA



 10x1  39 - 47



BOTBLANC

BOOT : PVC, white colour. **LINING** : viscose.

EN ISO 20347 OB E SRC

 10x1  36 - 47



COME

THIGH BOOT : resistant polyester PVC (700 gsm), green colour. Welding on safety boots. Large adjustable straps to fix on belt. Height: 90 cm. Black front wear resistant reinforcement.

LINING : viscose. **TOE CAP** : steel shockproof 200J.

PIERCE RESISTANT MIDSOLE : steel.

EN ISO 20345 S5 SRC



5x1 40 - 47

SINGER



WIKI

CHEST WADERS : resistant polyester PVC (700 gsm), green colour. Welding on safety boots. Adjustable elastic drawcord at waist. Height: 143 cm. Feature elasticated braces with fix lock buckles, an internal chest pocket. Black front wear resistant reinforcement. Reinforced with double layer on top edge.

LINING : viscose. **TOE CAP** : steel shockproof 200J.

PIERCE RESISTANT MIDSOLE : steel.

EN ISO 20345 S5 SRC



5x1 40 - 47

SINGER



CLUSE

Warm winter socks. 58% acrylic, 25% wool, 17% polyamide.

Terry inner surface for comfort and thermal insulation. Reinforced on high heel. Good performance and good support of the metatarsus.

00 (36-38), 01 (39-41),
02 (42-44), 03 (45-47)

10x10 **SINGER**



CAGNES

Summer socks. 67% cotton, 15% polyester, 18% polyamide.

Very comfortable thanks to its terry finish at the heel, instep and sole of the foot. Retention in the foot prevents the sliding of the sock in the shoe thus eliminating any risk of overheating of the foot.

01 (39-41), 02 (42-44),
03 (45-47)

10x10 **SINGER**



ACCBOTACRY

High socks for boots.
100% polyester.

One size only

60x1 **SINGER**



ACCCHAUSS

Socks for boot. Black colour. 50% polyester / 50% cotton.

01 (39-40), 02 (41-42),
03 (43-44), 04 (45-46)

30x10 **SINGER**



ST2022

Deodorant properties sole made:
A perforated upper layer of non-woven fabric. An intermediate layer with active carbon.
A perforated latex lower layer.

34-47

10x1 **SINGER**



ACCSEMELLE

Removable and antistatic sole.
Fast drying. Foot arch support.
Reduces shocks with PU and energy absorbing heel.

36-47

10x5 **SINGER**



ACCLAC

Pair of laces. Textile material.
Length: 130 cm. Colour grey/black.
Polybag of 10 pairs.

x10 **SINGER**



ACCBARY

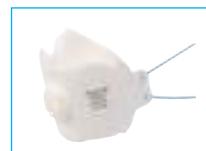
Pair of laces. Textile material.
Length: 130 cm. Colour red.
Polybag of 72 pairs.

x72 **SINGER**



FOLDABLE COMFORT PARTICULATE RESPIRATORS HORIZONTAL FOLD FLAT - 3 PANELS DESIGN

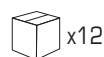
3 panels design. Large volume and exhalation valve improving the breathing of the user and decreasing the fatigue at work. Foldable design and easy carry/storage. Comfort and safety improved thanks to the ideal concept of this equipment. Latex free double elastic band. Adjustable invisible nosepiece to minimize leakage but maximize comfort. Smooth lining in polypropylene. Attractive and convenient dispenser boxes of 20 pieces. Individually hygienically packed. Passes EN149: 2001 optional Dolomite (symbol « D ») clogging test for more comfortable breathing and high reliability. Approved to EN149 standard.



AUUMP10V

Box of 20 pieces.

FPP1 NR D



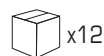
SINGER



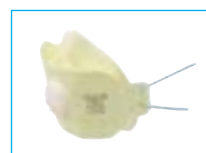
AUUMP20V

Box of 20 pieces.

FPP2 NR D



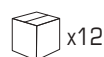
SINGER



AUUMP30V

Box of 20 pieces.

FPP3 NR D



SINGER

CLASSIC FOLDABLE PARTICULATE RESPIRATORS - HORIZONTAL FOLD-FLAT

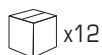
Latex free; nosepiece without metal, no metal used (avoid skin irritations). Continuous loop headstrap design allows to hang the mask around the neck when not in use. The unique shape of the respirators, pre-shaped, prevent from using metal nosepiece. Optional Dolomite («D» symbol) clogging test for more comfortable breathing. Approved to EN149 standard.



AUUMP100SL

Box of 20 pieces.

FPP1 NR D



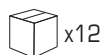
SINGER



AUUMP200VSL

With exhalation valve. Make breathing easier. Box of 20 pieces.

FPP2 NR D



SINGER



AUUMP300VSL

With exhalation valve. Make breathing easier. Box of 20 pieces.

FPP3 NR D



SINGER

CLASSIC FOLDABLE PARTICULATE RESPIRATOR - VERTICAL FOLD-FLAT

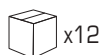
Patented headstrap buckle to adjust length of headstrap for various facial sizes. Cool latex-free textile braided headstrap for comfortable wearing. No staple used. Avoid contact between skin and metal. Continuous loop design allows to hang the mask around the neck when not in use. P.P. inner/outer layers provide smooth lining and a comfortable feel. Foldable design and easy carry/storage. Hygienic individual packaging. Boxes of 20 pieces. Approved to EN149:2001 standard.



AUUMP31V

With exhalation valve. Make breathing easier. Box of 20 pieces.

FPP1 NR



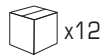
SINGER



AUUMP32V

With exhalation valve. Make breathing easier. Box of 20 pieces.

FPP2 NR



SINGER



AUUMP33V

With exhalation valve. Make breathing easier. Box of 20 pieces.

FPP3 NR



SINGER



COMFORT PARTICULATE RESPIRATORS

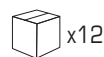
Patented headstrap buckle to adjust length of headstrap for various facial sizes. No metal used. Avoid contact between skin and metal and is suitable for those environments where metal is not allowed. Cool latex-free textile braided headstrap for comfortable wearing. Continuous loop headstrap design allows to hang the mask around the neck when not in use. Polypropylene (P.P.) inner layer provides the most intimate touch to your face. Pre-shaped nose cushion and soft closed-cell nose foam ensures a custom shape that increases worker comfort and acceptance. Embossed fringe seal avoids fluffy open layer around the edges. Contour design ensures the compatibility of spectacles/goggles and reduces fogging. Approved to EN149:2001 optional Dolomite (D) clogging test for more comfortable breathing.



AUUM21V

With exhalation valve. Box of 10 pieces.

FPP1 NR D



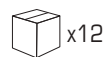
SINGER



AUUM22V

With exhalation valve. Box of 10 pieces.

FPP2 NR D



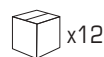
SINGER



AUUM23V

With exhalation valve. Box of 10 pieces.

FPP3 NR D



SINGER

PARTICULATE RESPIRATORS

Face-piece respirators. Filters solid and liquid aerosols. Moulded series. Approved to EN149:2001 standard. Approved to EN149:2001 optional Dolomite (D) clogging test for more comfortable breathing. Soft nose foam and adjustable nosepiece ensures custom shape and increases worker comfort and acceptance.

AUUM10SL

Box of 20 pieces.

FPP1 NR D



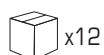
SINGER



AUUM10VSL

With exhalation valve. Box of 10 pieces.

FPP1 NR D



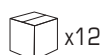
SINGER



AUUM20SL

Box of 20 pieces.

FPP2 NR D



SINGER



AUUM20VSL

With exhalation valve. Box of 10 pieces.

FPP2 NR D



SINGER



AUUM30VSL

With exhalation valve. Adjustable buckles. Facial foam. Box of 5 pieces

FPP3 NR D



SINGER





PARTICULATE RESPIRATORS

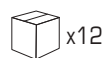
Latex free. The unique shape of the respirators, pre-shaped, prevent from using metal nosepiece. Optional Dolomite («D» symbol) clogging test for more comfortable breathing. Approved to EN 149 standard.



AUUMEC10

Box of 20 pieces.

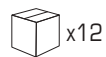
FPP1 NR D



AUUMEC20V

With exhalation valve. Box of 10 pieces.

FPP2 NR D

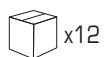


AUUMEC30V

With exhalation valve. Metal free (avoid skin irritations). Continuous loop headstrap design allows to hang the mask around the neck when not in use.

Box of 10 pieces.

FPP3 NR D



**AUUM3RB**

Non-woven surgical mask, 3 ply. Display box of 50 pieces.

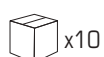
EN 14683 (Class I, type II)

**SINGER** **AUUMASQUE**

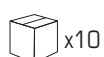
Hygienic non woven mask. Metal nosepiece. Elastic headband on ears. Box of 50 pieces

**Prosur****AUUCRTBLANC**

Non woven polypropylene clip round cap with elastic. White colour. Polybag of 100 pieces.

**Prosur****AUUCRTCLIP**

Non woven polypropylene clip round cap with elastic. White colour. Polybag of 100 pieces.

**Prosur**



**[LONG
WRIST]**



AUU5000

Nitrile. AQL 1,5. Powder free. Not sterile. Rolled cuff. Ambidextrous.
Length: 295 mm(*). Thickness: 0,16 mm(*). Display box of 100 gloves.



6/7(S), 7/8 (M),
8/9(L), 9/10(XL)

SINGER



AUU4010

Nitrile. AQL 1,5. Powder free. Non sterile. Rolled cuff. Ambidextrous.
Length: 245 mm(*). Thickness: 0,12 mm(*).
Display box of 100 gloves.



6/7(S), 7/8 (M), 8/9(L),
9/10(XL), 10/11(XXL)

SINGER



AUUNIT

Nitrile. AQL 1,5. Powder free. Non sterile. Rolled cuff. Ambidextrous.
Length: 240 mm(*). Thickness: 0,08 mm(*).
Display box of 100 gloves.

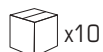


6/7(S), 7/8 (M),
8/9(L), 9/10(XL)

Prosur

AUU1000

Latex. AQL 1,5. Powder free. No sterile. Rolled cuff. Ambidextrous.
Length: 245 mm(*). Thickness: 0.14 mm(*). Display box of 100 gloves.



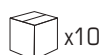
x10



6/7(S), 7/8 (M),
8/9(L), 9/10(XL)

SINGER
**AUULAT**

Latex. AQL 1,5. Lightly powdered. No sterile. Rolled cuff. Ambidextrous.
Length: 240 mm(*). Thickness: 0,10 mm(*). Display box of 100 gloves.



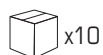
x10



6/7(S), 7/8 (M),
8/9(L), 9/10(XL)

Prosur
**AUU2000**

Vinyl. AQL 2,5. Lightly powdered. No sterile. Rolled cuff. Ambidextrous.
Thickness: 0,06 mm.(*). Length: 240 mm.(*). Display box of 100 gloves.



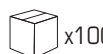
x10



6/7(S), 7/8 (M),
8/9(L), 9/10(XL)

SINGER
**AUU3000**

Polyethylene. Polybag of 100 gloves.



x100



One size only








Prosur


(*): Average values

**PLY600**

Chemical protective coverall. MICROPOROUS polypropylene non woven fabric. 65 gms. Waterproof seams with thermo-adhesive tape.

3 panels hood. Front zip fastening under flap with self adhesive tape closure. Elasticated waist, wrist and ankle. Under individual polybag. White colour.

						
EN ISO 14605 TYPE 4B	EN ISO 13982-1 TYPE 5B	EN ISO 13034 TYPE 6B	EN 1073-2 CLASS 1	EN 14126	EN 1149-5	

 x50  L - 2XL

SINGER 

**PLY500**

Chemical protective coverall. Non-woven SMS fabric. 55 gms. Waterproof seams with thermo-adhesive tape.

3 panels hood. Front zip fastening under large flap with self adhesive tape closure. Elasticated waist, wrist and ankle. Under individual polybag. White colour.

			
EN ISO 13982-1 TYPE 5	EN ISO 13034 TYPE 6	EN 1073-2 CLASS 1	

 x50  L - 3XL

SINGER 

**PLYULTI**

Chemical protective coverall. MICROPOROUS polypropylene non woven fabric. 65 gms. Serged seams. 3 panels hood.

Front zip fastening under large flap with self adhesive tape closure. Elasticated waist, wrist and ankle.

Under individual polybag. White colour.



EN ISO 13982-1 TYPE 5B	EN ISO 13034 TYPE 6B	EN 1073-2 CLASS 1	EN 14126	EN 1149-5
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x50 L - 3XL

SINGER

**PLY56**

Chemical protective coverall. Non woven SMS fabric. 55 gms.

Serged seams. 3 panels hood. Front zip fastening under large flap with self adhesive tape closure.

Elasticated waist, wrist and ankle.

Under individual polybag. White colour.



EN ISO 13982-1 TYPE 5	EN ISO 13034 TYPE 6	EN 1149-5	EN 1073-2 CLASS 1
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x50 M - 3XL

SINGER

**PLYCBC**

«Minor risk» coverall. Polypropylene non woven. 35 gsm.
2 panels hood. Front zipper. Elasticated waist, wrist and ankle.
Under individual polybag. White colour



 x50  L - 2XL

**PLYCBCLE**

«Minor risk» coverall. Polypropylene non woven. 35 gsm.
2 panels hood. Front zipper. Elasticated waist, wrist and ankle.
Under individual polybag. Blue colour



 x50  L - 2XL





KITAMIANTE

This kit is designed for your quick works in asbestos environment, without projection and not directly related to asbestos.

This kit contains : • 1 chemical protective coverall PLY500 (waterproof seams with thermo-adhesive tape), type 5, 6, size XL.

• 1 safety google EVAMAS. • 1 pair of nitrile glove NIT15, size 10. • 1 pair of overshoes AUUBOTTE2. • 1 classic foldable half-mask AUUMP300VSL (FFP3 NR D). • 1 scotch tape roll 5 cm x 33 m. • 1 waste bag with marking «ASBESTOS», 90 x 110 cm.



8x1



One size only



AUUTABLIER

Clean polyethylene apron with bib, slightly embossed. 125 x 81 cm. Polybag of 100 pieces. White colour.



x10



One size only



AUUBLOUSE

Clear polyethylene coat with hood and plastic press studs. Under individual polybag. Bundle of 100 pieces.



4x1



One size only



PLYBLOUSE

Non woven polypropylene lab coat. Plastic press studs fastening. 2 pockets. White colour. Under individual polybag.



x50



L, XL, 2XL



**AUUMTE**

Clear polyethylene sleeves. 40 cm.
Elastic at both ends.
Polybag of 1000 pieces.

**AUUMTEBLE**

Blue polyethylene sleeves.
40 cm. Elastic at both ends.
Polybag of 1000 pieces.

**AUUCHA**

Blue clean polyethylene shoe cover. Elasticated ankle.
Polybag of 1000 pieces.



One size only

**AUUCHA2**

White non woven polypropylene shoe cover. Reinforced blue polyethylene sole. Elasticated ankle. Polybag of 50 pieces.



One size only

**AUUBOTTE**

Clear single use polyethylene bootcover.
Elasticated ankle. Per 500 pieces.



One size only

**AUUBOTTE2**

Polypropylene single use bootcover. Anti-slip PVC sole. White color. Elastic ankle. Per 500 pieces.



One size only





The new Singer safety catalogue is released in a period during which many changes are occurring around PPE :

- Introduction of a new regulation PPE 2016/425/EU
- Evolution of many standards EN 338, EN 374, EN 420, EN 407...

These major modifications can change the information within this catalogue as well as some of the results of the product markings. We apologise and ask you to contact us to know all about the latest evolutions.

The manufacturers and distributors of PPE (Personal Protective Equipment)

They are subject to the new PPE 2016/425 regulation which entered into force on 21 April 2016, but applicable from 21 April 2018. The Regulation sets out the different categories of PPE, the certification procedures and in a regulatory manner the essential requirements and rules they must meet in order to be put on the market.

The Regulation also lays down the obligations of all economic operators (manufacturers, authorised representative, importers and distributors) and lays down the rules for the assessment of notified bodies.

Employers

They are subjected to the 89/656/CEE directive dated November 30th, 1989 « regarding the minimal prescriptions of safety and health for the needs by the workers at the work of personal protective equipments. The directive retains the obligation for employers to supply personal protective equipments when risks cannot be avoided by other ways » techniques of collective protection, or by measure, methods or procedures of work of organization.

This responsibility is reminded in the labour code article R.4321-4. The employer shall provide workers, when it is necessary, appropriate PPE, and in case of particularly dirty or unsanitary works, appropriate work clothes. It ensure their effective use.

The users of PPE

- Directive 89/656/CEE of 30 november 1989.

The directive is specifying the obligation given to the employers to supply personal protective equipment when hazards can not be avoided by other means.

From the facturer of PPE to the end-user through the employer, each player is empowered.

STAGE PRIOR TO PROTECTION: ANALYSIS OF RISKS AND PREVENTION.

Defining the concept of a risk

The risk is linked with concepts of danger and probability.

The risk is a real and potential threat for the health and/or the safety of the person.

Method of risk management: collective protection and prevention.

Identifying the foreseeable risks

- If possible, eliminate the risks, but if that is not possible:
- Isolate the risks (or move people away) to decrease their foreseeable harmful effect
- Announce (with panels, warnings) and inform people of the risks (knowing the risks is the best way of protecting oneself against them!)
- Plan staff training on the measures to be taken in the event of an emergency: first aid plan.

When all the means of collective protection and prevention have been exhausted, personal protective equipment (PPE) is to be used.

PPE DEFINITION. The European regulation 2016/425 gives us the following definition :

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 (An interchangeable component or a connexion system for equipment is also a PPE)

They are 3 categories of PPE

Category 1

Category I includes exclusively the following minimal risks: superficial mechanical injury / contact with cleaning materials of weak action or prolonged contact with water / contact with hot surfaces not exceeding 50°C / damage to the eyes due to exposure to sunlight (other than during observation of the sun) / atmospheric conditions that are not of an extreme nature. The products shall be subject to the internal production control (module A) set out in Annex IV.

Category 2

These are the PPE which don't belong neither to the category I nor to the category II. The products shall be subject to EU-type examination (module B) set out in Annex V, followed by conformity to type based on internal production control (module C) set out in Annex VI.

Category 3

It includes exclusively the risks that may cause very serious consequences such as death or irreversible damage to health relating to the following: substances and mixtures which are hazardous to health / atmospheres with oxygen deficiency / harmful biological agent / ionising radiation / high-temperature environments the effects of which are comparable to those of an air temperature of at least 100°C / low-temperature environments the effects of which are comparable to those of an air temperature of -50°C or less / falling from a height / electric shock and live working / drowning / cuts by hand-held chain-saws / high-pressure jets / bullet wounds or knife stabs / harmful noise.

The products shall be subject to an EU-type examination (module B) set out in Annex V, and either of the following:

- conformity to type based on internal production control plus supervised product checks at random intervals (module C2) set out in Annex VII,
- conformity to type based on quality assurance of the production process (module D) set out in Annex VIII.

Note

Clothing intended for private use with reflective or fluorescent elements included for reasons of design or decoration is not personal protective equipment. The products for private use against atmospheric conditions which are not of extreme nature are not PPE (moisture, water ...). But products for private use that provide protection against heat are now PPE (oven gloves...)



PPE and European Standards

What is a norm?

Technical rules which defines the essential and relevant characteristics of a product (or a method) established in order to guarantee its quality, functioning or resistance.

Why a norm?

The norm has the advantage of giving the possibility to standardize, to harmonize and to compare. It is consequently easier for the consumer to make his choice; it improves his security and his confidence into the product.

Is it compulsory?

According to the reglementation the norm can be compulsory and restricting or it can comes in complement of the general requirements to bring additional security to the user.

General remarks :

Standards as well as all general information presented in this document are not exhaustive and may change at any time. They are given for information purpose and cannot engage our responsibility in 2 any case.

To ensure the transmission and the integration of images, the eye must imperatively retain a number of characteristics: The integrity of the ocular shell and its elasticity. The transparency of the cornea and the various transparent media of the eye. The good contact between nerve cells, involving a retina in place

The risks threatening the integrity of the eye are manifold: Mechanical hazard (crushing, grinding, sanding, cutting ...) / Chemical risk and / or biological (dust, liquid projection ...) / Risk Linked to radiation (UV, IR, welding ...) / Thermal-Danger (foundries, refineries ...) / Electric-Danger (short-circuit arc)

The general standard applicable to protective eyewear is the EN 166 standard (Personal eye protection, specifications. It provides, inter alia, for the mandatory marking of the temples and lenses). This standard (together with the EN 168) also provides for mechanical equipment resistance tests.

EN 166	2001
Optical Class Optical class 1 = Continuous work (better quality) Optical class 2 = Intermittent work Optical class 3 = Occasional work (lower quality)	

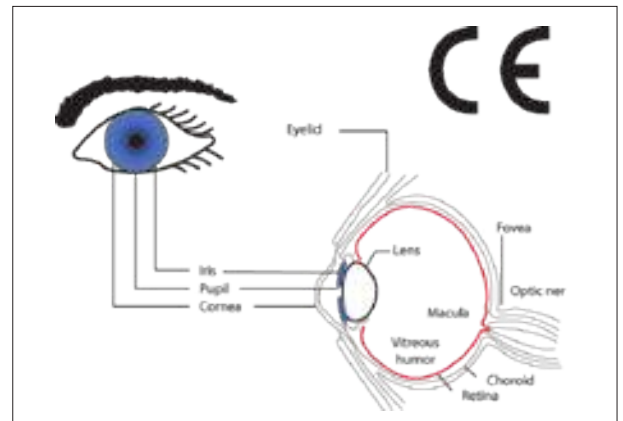
Identification symbols for mechanical strength

Symbol	Mechanical strength requirements
No symbol	Minimum robustness
S	Increased robustness
F	Low energy impact
B	Medium energy impact
A	High energy impact

Symbols for field of use

Symbol	Designation
No symbol	Basic use
3	Liquids
4	Large dust particles
5	Gas and fine dust particles
8	Short circuit electric arc
9	Molten metal and hot solids

Symbol T is used in conjunction with either F, B or A, to indicate that the eye protector conforms to the high speed particules classifications at extremes of temperature.



NORMES	Désignation
EN 165	Personal eye-protection - Vocabulary.
EN 166	Personal eye-protection - Specifications.
EN 167	Personal eye-protection - Optical test methods.
EN 168	Personal eye-protection - Non optical test methods.
EN 169	Personal eye-protection - Filters for welding and related techniques. Transmittance requirements and recommended utilisation.
EN 170	Personal eye-protection - Ultraviolet filters.
EN 171	Personal eye-protection - Infrared filters.
EN 172	Personal eye-protection - Sunglare filters for industrial use.
EN 175	Personal protection - Equipment for eye and face protection during welding and allied processes.
EN ISO 12312	Eye and face protection - Sunglasses and related eyewear



EN 170 SCALE NUMBER 2-1,2 - 2-1,7

Shade colour: clear, blue, yellow or green.

Colour perception: may be impaired unless marked "2C".

Typical application: for use with sources which emit predominantly ultraviolet radiation at wavelengths shorter than 313 nm and when glare is not an important factor: this covers the UVC and most of the UVD Bands (b).

Typical sources (a) : low pressure mercury lamps such as lamps used to stimulate fluorescence or «black lights», mercury lamps, germicidal lamps. (a) (the example given for typical sources is for general guidance). (b) The wavelengths of these bands are recommended by IEC (that is 280 nm to 315 nm for UVB and 100 nm to 280 nm for UVC).

EN 172 SCALE NUMBER 5-2

Shade colour: smoke.

Use: recommended general filter for most uses.

Designation (1): medium.

(1) The designation is not translated literally in various language versions of this standard since the filter 'darkness' will be considered differently according to the intensity of light experience in the countries concerned.

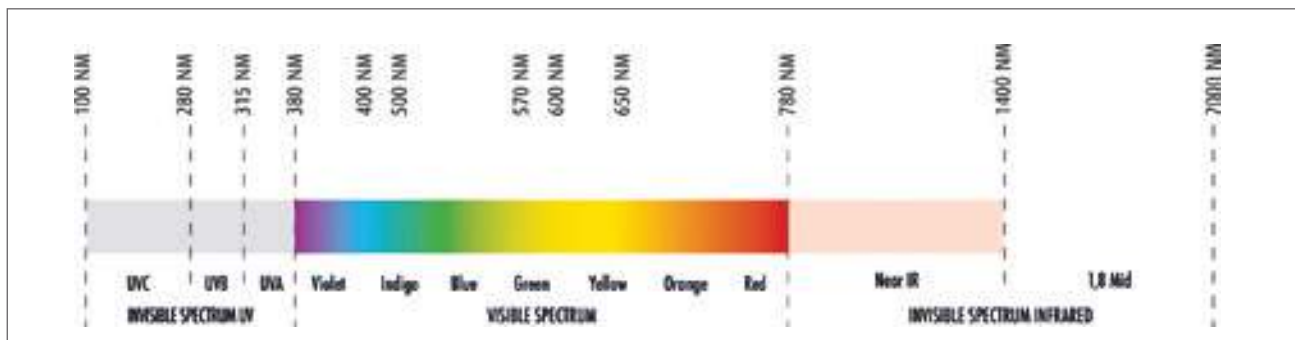
EN 172 SCALE NUMBER 5.3-1

Colour: smoke.

Typical application: for use in the tropics and sub-tropics, for observation of the sky, for use in high mountain regions, snow covered areas, bright stretches of water, sandy plains, chalk and limestone quarries.

Designation (1): very dark.

(1) The designation is not translated literally in various language versions of this standard since the filter 'darkness' will be considered differently according to the intensity of light experience in the countries concerned.



The marking of oculars shall contain the relevant technical information presented as follows:

- Scale number (filters only) (optional) • Identification of the manufacturer • Optical class
- Symbol for mechanical strength (where applicable) • Symbol for resistance to short circuit electrical arc (where applicable)
- Symbol for non-adherence of molten metal and resistance to penetration of hot solids (where applicable)
- Symbol for resistance to surface damage by fine particles (where applicable) (symbol K)
- Symbol for resistance to fogging (where applicable) (symbol N) • Symbol for enhanced reflectance (where applicable) (symbol R)
- Symbol for original or replacement ocular (optional) (symbols O or ▽)
- In addition the ocular marking may include a certification mark and a mark to assist correct fitting of laminated oculars.

The marking of frames shall contain the relevant technical information presented as follows:

- Identification of the manufacturer* The number of this standard (EN 166)
- Field(s) of use (optional) (depending of the model)
- Symbol for increased robustness/resistance to high speed particles/Extremes of temperature (where applicable)
- Symbol indicating that the eye protector is designed to fit a small head (where applicable) (symbol H)* Highest ocular scale number(s) compatible with the frame (where applicable)
- In addition the frame marking may include a certification mark.

What is an aerosol?

It is a suspension in a gaseous environment (air or other gas - air and a gas composed of 21% of oxygen, 78% of nitrogen and 1% of other gas) with solid or liquid colloidal particles (size superior to the size of molecules). The fog and the clouds are aerosols. They are bodies sufficiently little to stay in suspension in the air. It exists different types of dust: vegetal (for example, the pollen), domestic (spores), industrial (broyage, grinding: rocks, metals,...), raw materials (for example asbestos).

According to their degree of dangerousity, we have three categories:

Ill-at-ease: they are inert particles (neither fibrogenes nor toxic) with a diameter superior or equal to 5 microns. Their action is limited to respiratory tracts: nasal pits, pharynx, larynx.

Noxious: inert or particles of fibrógenas (not toxic), diameter between 5 and 0,2 microns. Their action are felt in the median respiratory tracts: trachea, artery and bronchitis.

Toxic: inert, toxic, fibrógenas particles, with a diameter between 0,2 and 0,02 microns. They go into the respiratory tracts: air cells and bronchus.

Gases and vapors

A vapor is the gaseous state of a substance which is solid or liquid at room temperature. To become in the state of vapor it is necessary therefore an action on these matters: temperature, chemical reaction, etc ...

A gas is a product which is in the vapor phase at room temperature, for example: air. According to the temperatures these gases can solidify or liquefy (for example: liquid air). Many gases and vapors are toxic for the human beings.

How are they dangerous?

The particles that are inhaled can provoke numerous respiratory problems and serious diseases (cough, asthma, bronchitis)

Precautions

Before selecting the suitable PPE, some factors should be considered: oxygen content, type of contaminant, its concentration, limit values, temperature, humidity, working time, hardness, rescue and evacuation plan, etc.

STANDARDS

EN 149

Protection respirator. Filtering half-mask against particles.

- Solo use : marking **NR**
- reusable (More than one working day : marking **R**)

FFP1: Protection against non toxic solid and liquid aerosols with concentrations up to 4,5 x MAC/OEL/TLV or 4 x APF.

FFP2: Protection against non toxic and low-to-average toxicity solid and liquid aerosols, in concentrations up to 12 x MAC/OEL/TLV or 10 x APF.

FFP3: Protection against non-toxic, low-to-average toxicity and high toxicity solid and liquid aerosols, in concentrations up to 50 x MAC/OEL/TLV or 20 x APF.

EN 140

«Respiratory protective devices. Half-masks and quarter-masks. Requirements, testing, marking».

EN 14387

«Respiratory protective devices. Gas filters and combined filters. Requirements, testing, marking».

These filters are classified in types and class according to the use and the filtering capacity :

** Types :

Type A (brown): against gas and organic vapours with a boiling point superior to 65°C

Type B (grey): against certain gas and inorganic vapours (excluding the carbon monoxide)

Type E (yellow): against sulphur dioxide, other gas, acid vapours

Type K (green): against ammonia and organic derivatives of ammonia.

These 4 types have a class number

** Class :

1 = filter of little capacity

2 = filter of middle capacity

3 = filter of high capacity

EN 14683 :

Surgical masks.

Directive 93/42/EEC on medical devices.

Mask to protect the environment of the wearer of the mask.

Not to be confused with protective masks (EN 149) to protect the wearer from the environment (The European regulation 2016/425 on PPE).

EN 143

Breathing protective equipment. Filters against particles.

Required conditions, tests, marked. Classification according to the filter's efficiency P1, P2 or P3.

EN 136

Respiratory protective devices. Full face masks.

Requirements, testing, marking.

EN 14683 : Requirements	Type I	Type IR	Type II	Type IIR
Bacterial filtration efficiency	> 95%	> 95%	> 98%	> 98%
Differential pressure	< 29,4 Pa	< 49,0 Pa	< 29,4 Pa	< 49,0 Pa
Splash resistance	NR	> 120 mm Hg	NR	> 120 mm Hg

Type IR and IIR are resistant to blood splashes

EN 149 : Requirements	FFP1	FFP2	FFP3
Total inward leakage	< 22%	< 8%	< 2%
Maximum penetration of test aerosol (Sodium chloride or paraffin oil)	< 20%	< 6%	< 1%
Breathing resistance: - inhalation (30 l/min) - inhalation (95 l/min) - exhalation (160 l/min)	< 0,6 mbar < 2,1 mbar < 3,0 mbar	< 0,7 mbar < 2,4 mbar < 3,0 mbar	< 1,0 mbar < 3,0 mbar < 3,0 mbar



Hazards related to falling objects:

The protection helmet plays a crucial part, which includes three aspects:

- Antipenetration function: reinforces the skull,
- Shock-absorbing function: absorbs shocks,
- Deflecting function: diverts the trajectory of the falling object.

Hazards resulting from impacts:

Less spectacular than falling objects, but more common, the helmet plays a protective role here too.

Electric hazards:

Helmets should be isolated and pass specific tests.

Projection hazards:

Liquid projection (chemicals), molten metal.

**STANDARDS****EN 397****Industrial safety helmet.**

This sets out the physical and performance requirements, testing methods and marking requirements of protection helmets for the industry.

The obligatory requirements apply to protection helmets for everyday use in industry.

Among the obligatory requirements are:

- shock absorption: a hard-hitting mass of 5.0 kg (+/- 0.1kg) is dropped onto the top part of the helmet at a height of 1000 mm (+/- 5 mm),

- penetration resistance: a hard-hitting mass of 3.0 kg (+/- 0.05 kg) with particular characteristics is dropped onto the top part of the helmet at a height of 1000 mm (+/- 5 mm); it is to be noted if contact between the point and false head is found,
- flame-resistance,
- chin-strap anchorage points.

Optional additional requirements are applicable only when specifically demanded by the manufacturer of the helmet.

**EN 50365****Electrically Insulating****Helmets for use on low voltage installations**

For staff working on or near energized parts facilities not exceeding 1000 V ac (Class 0) or 1500 V dc. These equipments, combined with other protections, should avoid dangerous currents to cross through the head.

EN 13087-1 à EN 13087-10**Protective helmets: test methods****EN 812****Industrial bump caps.**

This standard specifies the physical and performance requirements, the testing methods and the marking requirements of the bump caps for industry. The bump caps for industry are intended to protect the wearer when he hits his head against hard and stationary objects with sufficient force to cause lacerations or other superficial injuries. They are not intended to protect from the effects of projections or the falling of suspended or moving objects or loads. One should not confuse the bump caps for industry with the protection helmets for industry specified in EN 397.

EN 14052**High performance industrial safety helmets.****EN 443****Helmets for firefighters.**

Specifies the main required characteristics for such a firefighter and assistance helmet. It takes into account protection level, confort and life span of the helmet. It allows options to take into consideration particular national requirements.

Using watermelons for a dramatic demonstration of the protection given by an industrial safety helmets

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A number of hazards threatening the user's health and/or safety can be identified:

- Mechanical hazards: impacts, crushing, perforation...
- Chemical hazards: hazardous or corrosive products...
- Heat-related hazards: cold, heat, weather, molten metal projections...
- Electric hazards: electrical discharge, static electricity
- Hazards related to radiation and contamination: ultraviolet
- Biological hazards: allergies, irritations...
- Hazards related to the user's movements: skidding...

The materials used for those products are broken down into two classes:

** Classes :

Class 1: all leather and other materials (except for all rubber or all polymer).

Class 2: all rubber (fully vulcanised) or all polymer (fully moulded).

STANDARDS

There are 3 categories of shoes for professional use:

EN ISO 20345 : Safety footwear

Toe protection against shocks equivalent to a level of energy equal to 200J and the risks of flattening under a maximal weight of 15 kN.

EN ISO 20346 : Protective shoes

Toe protection against shocks equivalent to a level of energy equal to 100J and the risks of flattening under a maximal weight of 10 kN.

EN ISO 20347 : Occupational footwear

No specification about toe protection.

Test methods as well as specifications corresponding with norms requirements specified above are registered under the **EN ISO 20344** Standard. Personal protective equipment - Test methods for footwear.

Besides of the general requirements, the shoes may comply with additional facultative requirements.

Categories identifiable by a code group combinations gather most of common requirements.

Class	EN ISO 20345
I or II	SB: basic properties
I	S1: basic properties plus - Closed backpart - Antistatic properties - Energy absorption of the heel - Resistance to fuel oil
	S2: as S1, plus - water penetration and water absorption.
	S3: as S2, plus - anti-puncture sole - studded sole
II	S4: basic properties plus - closed backpart - Antistatic properties - Energy absorption of the heel - Resistance to fuel oil
	S5: as S4, plus - anti-puncture sole - studded sole

Protectors may also meet one or more optional requirements. These are then represented at the marking by a symbol letter:

Marking	Specifications
E P CR M	Heel energy absorption Shoes with protective midsole Cut resistance of the upper Metatarsal protection
C A	Conductive sole Antistatic footwear
HI CI HRO	Insulation against heat Insulation against cold Heat resistant outsole compound (tested at 300°C)
WRU WR	Water penetration and water absorption of the upper Water resistance of the whole footwear

Determination of slip resistance:

Marking **SRA**: Slip resistance on ceramic tile floor with SLS.

Marking **SRB**: Slip resistance on steel floor with glycerol.

Marking **SRC**: SRA + SRB

Too often the negative effects of noise in our everyday life at home or at work are badly known and are underestimated. Yet the consequences can be serious and irreversible. In order to remedy that, it is essential to be aware of the dangers and risks, and of the steps to be taken in the area of sound insulation and protective equipment.

What is sound? Its consequences?

Sound is a vibration (wave) in an environment (air for instance), whose pitch is higher or lower (frequency, expressed in Hertz).

There are various characteristics to those waves:

1/ Their frequency (i.e. the number of vibrations per second, expressed in Hertz – Hz = 1 vibration per second). High-pitch sounds have a high frequency, low pitch sounds have a low frequency.

2/ The sound intensity is expressed in decibels (dB).

It is said that a noise exceeding 85dB should trigger an alert, and that beyond 90dB, it becomes dangerous. However, a noise can also be dangerous because of its frequency, its duration, its nature (continuous, intermittent, sudden, etc...).

In addition to auditory stress and gradual industrial deafness, noise can have adverse effects on work quality and result in psychosomatic effects in individuals (stress, tiredness, anxiety, etc.).

The regulation on material has recently changed with the registering of the European directive 2003/10/CE by the decree no. 2006-892 of July 19th 2006. Since 2006 the exposure thresholds have been lowered. The first exposure threshold from which action has to be taken is 80dB (A) for 8 hours.

Daily exposure times to the noise requiring action

Noise level in dB (A)	Maximum exposure time
80	8h
83	4h
86	2h
89	1h
92	30 min
95	15 min
98	7.5 min

Being exposed for 8 hours to 80 dB (A) is exactly as dangerous as being exposed to 89 dB (A) for 1 hour!

STANDARDS

EN 352-1

Hearing protectors - General requirements

Part 1: Ears-muffs.

This standard specifies the requirements in field of construction, conception, performance and printing of ears-muffs as well as information for end-user. It stipulates particularly the acoustic fading of ears-muffs in conformity with the EN 24869. This standard does not apply to ear-muffs to be settled on security helmets or integrated to helmets.

EN 352-2

Hearing protectors. - General requirements

Part 2: Ears-plugs.

This standard specifies the requirements in field of construction, conception, performance and printing of ears-plugs as well as information for end-user. It stipulates particularly the acoustic fading of ears-plugs in conformity with EN 24869-1 standard.

EN 352-3

Hearing protectors. - Test and security requirements.

Part 3: Ears-muffs attached to an industrial safety helmet.

This standard specifies the requirements for the construction, conception, performance and printing of ears-muffs attached on industrial helmets in conformity with EN 397 standard as well as information for end-user. It stipulates particularly the acoustic fading of ears-muffs attached on industrial helmets in conformity with EN 24869-1. As a same ear-muff can be attached on different models or sizes of industrial security helmets, the actual part of standard specifies many physics and acoustic requirement functions of the models or the size of the helmet ear-muffs are attached on. Requirements apply fully to the base combination, that is to say helmet and ear-muffs attached on one model or on one of the specified size of helmets. Requirements apply partially only to the additional combination, that is to say ear-muffs of the same model but attached on other helmets or sizes than the specified ones.



The main risks:

- thermal risks (cold, heat, wind, flame, metal projections ...)
- risks related to poor visibility (building sites, roads...)
- chemical risks (dust, gas...)
- mechanical risks (cuts, shocks, tears, perforations...)
- biological risks (contamination by viruses, bacteria...)
- electric and electrostatic risks.

Clothing will be selected according to its ability to protect against the risk encountered but also depending on its comfort, its aestheticism, its functionality (adjustment methods, pockets, fastenings...).

STANDARDS**EN ISO13688 : General requirements**

(This standard cannot be used alone but only in association with a specific norm).



EN ISO 11611
Protective clothing for use
in welding and allied processes

Two protective classes. Class 1 being the lowest.
Class 1 corresponds with protection for minor risks and for situation which would cause the less projections and a weak radiant heat.
Class 2 protects from more important risks which could include more projections and a more important radiant heat.
Letter A1 or A2 corresponds with the method used for spreading of the flamme, in conformity with the norm ISO 15024/2000.



EN ISO 11612
Protective clothing -
Clothing to protect against heat and flame

This standard imposes a number of requirements in terms of product design (for example : the flap of the outer pockets must be larger than the pocket ...).

Limited flame spread.	A1 and/or A2 (according to the test method used)
Convective heat.	Letter B. (Classification from B1 to B3)
Radiant heat.	Letter C. (Classification from C1 to C4)
Molten aluminium splash.	Letter D. (Classification from D1 to D3)
Molten iron splash.	Letter E. (Classification from E1 to E3)
Contact heat.	Letter F. (Classification from F1 to F3)

Each garment must bear the code letters A1 and / or A2 plus at least another code letter.



EN 342
Protective clothing against cold.
Temperatures lower than -5°C



EN 14058
Protection against cool environments
Temperatures of -5°C and more



EN 343
Protective clothing against bad weather

- resistance to water penetration
class 1 to 3, class 1 is the lowest level
- resistance to water vapour resistance
class 1 to 3, class 1 is the lowest level.



EN ISO 20471
High visibility clothing

The minimum surface of each visible material in scare meter will determine the class of the garment.

Area in m ²	Class 3 garments	Class 2 garments	Class 1 garments
Background material	0.80	0.50	0.14
Retro-reflective material	0.20	0.13	0.10
Combined performance material			0.20

Background fluorescent coloured material, for the day

Fluorescence is the ability of a material to reflect more light than it receives. Consequently fluorescent colors seem more vivid than those which does not have this property

Retro-reflective material for night

A retro-reflector is a device capable of reflecting the light it receives back in directions close to the source. Thus the driver who light a pedestrian in the night with the headlights of his vehicle, can identifies very quickly the garment which features a retro-reflective material.

The coefficient of retro-reflection of the retro-reflective material must be **class 2** to comply with EN ISO 20471 (class 1 of previous EN 471 standard has been cancelled).

(x) The figure next to the symbol indicates the class of the garment according to the compulsory minimum area.



EN 943, EN 14605,
EN ISO 13982, EN 13034
Protective clothing
for use against chemicals

Type 1 : gaz tight.

Type 2 : non gaz tight.

Type 3 : liquid tight connections.

Type 4 : spray-tight connections.

Type 5 : protection to the full body against airborne solid particulates.

Type 6 : limited protection against liquid chemicals.



EN 14126 : Performance requirements
and tests methods for protective clothing
against infective agents.



EN 1073-2 : Requirements and test methods for
non-ventilated protective clothing against particulate
radioactive contamination.

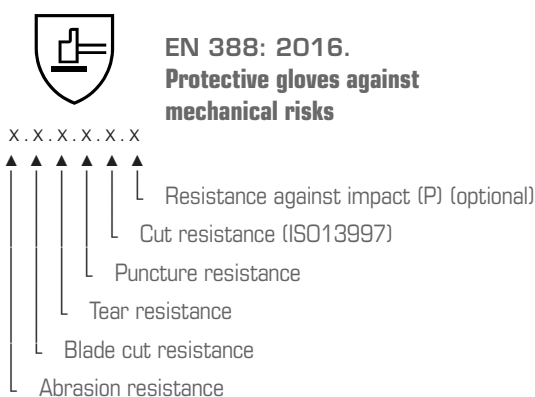


EN 1149-5 : Electrostatic properties.
Part 5: Material performance
and design requirements.

Hands are precious but vulnerable. However, people continue not to take care of their security when they work. The hands suffer because of lots of attacks, wounds, cuts (due to the heat or to chemical products), pittings, electric discharges shocks, flattenings, ... In numerous occasions, the lack of protection or the negligence in the choice of an adapted equipment causes damages that can be important and also irreversible (28% of the accidental causes during the work in 1998, that is to say the higher proportion compared to the proportions of the other members of the body). To protect oneself and decrease the risks, it is imperative to use adapted and resistant gloves according to standards of reference.

MAIN STANDARDS

EN 420: 2003 +A1: 2009. General requirements for gloves. (glove design and construction, innocuousness, size, marking, information supplied by the manufacturer...).



Mechanical data	Level 1	Level 2	Level 3	Level 4	Level 5
Abrasion resistance (number of cycles)	100	500	2000	8000	-
Blade cut resistance (indice)	1,2	2,5	5,0	10,0	20,0
Tear resistance (in newtons)	10	25	50	75	-
Puncture resistance (in newtons)	20	60	100	150	-

For cut resistant gloves that contain materials that are dulling the blade, and additional compulsory test must be performed according to EN ISO 13997 test method (TDM 100 tester). This test may also be optional for gloves that do not dull the blade

	Level A	Level B	Level C	Level D	Level E	Level F
Cut resistance (N) as per EN ISO13997	2	5	10	15	22	30

Additional protection against impact can be tested according to EN 13594 test method with an impact energy of 5J. When a glove conforms to this test, the gloves will be marked with the letter P after the 5 mechanical levels (abrasion, blade cut, tear, perforation, cut according to the TDM).




EN 374-1: 2016. Protective gloves against dangerous chemicals and micro-organisms. Part 1. Terminology and performance requirements for chemical risks

EN 374-2: 2015. Protective gloves against dangerous chemicals and microorganisms. Part 2. Determination of resistance to penetration

EN 16523-1: 2015. Determination of material resistance to permeation by chemicals. Part 1: Permeation by liquid chemical under conditions of continuous contact.

EN 374-4: 2014. Protective gloves against chemicals and micro-organisms. Part 4. Determination of resistance to degradation by chemicals

3 types of gloves are defined

Type of glove	Requirement	Marking
Type A	Breakthrough time \geq 30 min for at least 6 chemicals of the list (see below)	ISO 374-1:2016/ Type A  AJKLPS
Type B	Breakthrough time \geq 30 min for at least 3 chemicals of the list (see below)	ISO 374-1:2016/ Type B  JKL
Type C	Breakthrough time \geq 10 min for at least 1 chemical of the list (see below)	ISO 374-1:2016/ Type C  J

EN ISO 374-1: 2016 :

Chemical Permeation Performance levels



Measured breakthrough time (min)	Permeation performance level
> 10 min	Class 1
> 30 min	Class 2
> 60 min	Class 3
> 120 min	Class 4
> 240 min	Class 5
> 480 min	Class 6

c o d e	Chemical	Cas number	Class
A	Methanol	67-56-1	Primary alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile composite
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
E	Carbone Disulphide	75-15-0	Organic compound containing Sulphur

F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofuranne	109-99-9	Heterocyclic Ether
I	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-82-5	Saturated Hydrocarbon
K	Sodium hydroxide 40%	1310-73-2	Inorganic base
L	Sulphuric acid 96%	7664-93-9	Inorganic mineral acid, oxidising
M	nitric acid (65% ± 3) %	7697-37-2	Inorganic mineral acid
N	acetic acid (99% ± 1) %	64-19-7	Organic acid
O	ammonia 25%	1336-21-6	Organic base
P	hydrogen peroxid 30%	7722-84-1	Peroxide
S	hydrofluoric acid 40%	7664-39-3	Inorganic mineral acid
T	formaldehyde 37%	50-00-0	Aldehyde

EN 374-5: 2016

Protective gloves against dangerous chemicals and micro-organisms. (as per EN 374-2: 2014)

Protection against and fungi	With additional permeation test to virus (ISO16604)
EN 374-5: 2016 	EN 374-5: 2016  VIRUS

**EN 407: 2004.**

Protective gloves against thermal risks (heat and/or fire)

X . X . X . X . X . X

↑ ↑ ↑ ↑ ↑ ↑

Large splashes of molten metal (level 1 to 4).

Small splashes of molten metal (level 1 to 4).

Radiant heat (level 1 to 4).

Convective heat (level 1 to 4).

Contact heat (level 1 to 4) (Threshold time ≥ 15 s)

Class	Temperature	Class	Temperature
1	100°C	3	350°C
2	250°C	4	500°C

Burning behaviour - (level 1 to 4)

**EN 12477 2002. + A1: 2005.**

Protective gloves for welders

Type A: for more general welding and cutting operations

Type B: suitable where a higher dexterity is required (TIG)

**EN 381-7: 1999**

Protective clothing for users of hand-held chain saws.

Part 7 : Requirements for chainsaw protective gloves

Class 0.....16 m/s Class 2.....24 m/s

Class 1.....20 m/s Class 3.....28 m/s

Model A or Model B

depending on the specified area of protection.

**EN 421: 2010**

Protective gloves against ionizing radiation and radioactive contamination.

**EN 511: 2006.**

Protective gloves against cold.

X . X . X

↑ ↑ ↑

Water penetration (level 0 or 1)

Contact cold (level 0 to 4).

Convective cold (level 0 to 4).

EN 16350: 2014

Protective gloves. Electrostatic properties.

Each individual measurement shall satisfy the vertical resistance requirement: $R_v < 1.0 \times 10^8 \Omega$
Test method according to EN 1149-2: 1997

EN ISO 10819: 2013

Mechanical vibration and shock.

Hand-arm vibration. Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand

**EN 60903**

Gloves for electrical works

(TE = Tension of use V = volt)

Tested to	Tension of use	Class	Category
2500 V	500 V	00	M
5000 V	1000 V	0	M
10000 V	7500 V	1	M
20000 V	17000 V	2	M
30000 V	26500 V	3	M

Acetaldehyde	+++	+++	+	0
Acetic acid anhydride 50%	+++	+++	+++	+++
Acetic butyl ester	0	0	+	0
Acetic ethyl	0	+	+	+
Acetic methyl	+	+	++	0
Acetic potassium	+++	+++	+++	+++
Acetic propyl ester	++	+	++	0
Acetone	+++	++	0	0
Acrylonitrile	++	+	0	0
Ammonium chloride	+++	+++	+++	+++
Ammonium hydrate	+++	+++	+++	+++
Amyl alcohol	+++	+++	+++	+++
Anhydrous hydrogen chloride	++	+++	+++	+++
Aniline	++	++	0	0
Animal fat	+	+++	+++	+
Aqua regia	0	++	+	+
Asphalt	0	+	+++	0
Benzaldehyde	+	0	0	0
Benzene	0	0	+	0
Benzol	0	0	+	0
Bleach	++	+++	+++	++
Bleaches (hair)	+++	+++	+++	+++
Butanol	++	+++	+++	++
Calcium chloride	+++	+++	+++	+++
Calcium phosphate	+++	+++	+++	+++
Carbon tetrachloride	0	0	+	0
Castor oil	0	+++	+++	+
Chlorine	0	++	++	+++
Chloroacetone	+	+	0	0
Chlorobenzene	0	0	0	0
Chloroform	0	0	0	0
Chromic acid 50%	0	0	+	++
Citric acid	+++	+++	+++	+++
Creosote	0	+	+++	+
Cresol	0	+	+	0
Cuttings oil	0	+++	+++	++
Cyclohexane	0	+	++	0
Cyclohexanol	++	+++	+++	+++
Cyclohexanone	+	+	0	0
Diacetone alcohol	+++	+++	+	0
Dibutyl ether	0	+	+++	0
Dibutyl phthalate	+	+	+++	0
Dibutylphthalate	++	+	+++	0
Dichloroethane	0	0	+	0

Diesel	0	0	+++	+
Diesel oil	0	+	+++	+
Diethanolamine	+++	+++	+++	++
Diethylamine	0	0	+	0
Di-isobutyle Ketone	+	+	+++	+
Di-isocyanure	+	++	++	+
Dimethyl formamide	++	++	0	0
Dimethylformamide	++	++	0	0
Dimethylsulfoxyde	+++	+++	+++	0
Diocetyl phthalate	0	++	+++	0
Diocylphthalate	+	+	+	0
Ethanol (anhydrous)	+++	+++	+++	++
Ether	0	+++	+++	0
Ethylamine	0	0	++	+
Ethylaniline	+	+++	+++	+
Ethylene glycol	+++	+++	+++	+++
Expoxyde resin	+++	+++	+++	+++
Fermentation alcohol	+++	+++	+++	++
Fertilizer	+++	+++	+++	+++
Fluoride	++	+++	+++	++
Formal	+++	+++	+++	+++
Formaldehyde (30%)	+++	+++	+++	+++
Fuel oil	0	+	+++	+
Furfural	+++	++	0	0
Gasoline car	0	++	+++	+
Glacial acetic acid	+++	+++	++	+
Glycol	+++	+++	+++	+++
Herbicides	+++	+++	+++	+++
Hexane	0	++	+++	0
Household detergents	+	++	++	++
Hydrazine 65%	++	+++	+++	+++
Hydrobromic acid	+++	+	+	+
Hydrofluoric acid 30%	++	+++	+++	++
Isopropanol	+++	+++	+++	++
Kerosene	0	+	+++	+
Lacquer thinner	+	++	++	0
Magnesia	+++	+++	+++	+++
Methanamine	++	++	+++	+++
Methanol	+++	+++	+++	++
Methylaniline	+	+	+++	+++
Methylene bromide	0	0	0	0
Methylene chloride	0	+	+	0
Methylethylketone	+	+	0	0
Mineral oils	0	+++	+++	+

Naphtalene	0	+	++	0
Nickel chloride	+++	+++	+++	+++
Nitric acid 20%	++	++	+	+
Nitric ammonium	+++	+++	+++	+++
Nitric calcium	+++	+++	+++	+++
Nitric potassium	+++	+++	+++	+++
Nitric sodium	+++	+++	+++	+++
Nitrobenzene	0	+	0	0
Nitromethane	+	++	+	0
Nitropropane	+	++	0	0
Octyl alcohol	++	+++	+++	+
Oleic acid	+	+++	+++	+
Oxalic acid	+++	+++	+++	+++
Paint strippers (and varnishes)	+	++	++	+
Paint thinners	+	++	++	+
Pentachlorophenol	0	++	+++	+
Perchloroethylene	0	+	++	0
Phenol	++	+++	0	++
Phosphoric acid	++	+++	+++	++
Picric acid	++	+++	+++	++
Pine oils	0	+	+++	+
Polyester resin	0	+	++	+
Potassium bicarbonate	+++	+++	+++	++
Potassium chloride	+++	+++	+++	+++
Potassium hydroxyde 50%	+++	+++	+++	+++
Potassium iodide	+++	+++	+++	0
Potassium phosphate	+++	+++	+++	+++
Potassium sulfate	+++	+++	+++	+++
Printing ink	++	+++	+++	+
Propane	0	++	++	++
Propanol	++	+++	+++	+
Propylene dichloride	0	0	+	0
Propylene oxide	0	0	0	0
Pyridine	+	0	0	0
Silicane	+++	+++	+++	+++
Silicon	0	++	0	+
Sodium bicarbonate	+++	+++	+++	++
Sodium carbonate	+++	+++	+++	+++
Sodium chloride	+++	+++	+++	+++
Sodium hydroxyde 50%	+++	+++	+++	++
Sodium iodide	+++	+++	+++	0
Sodium phosphate	+++	+++	+++	+++
Sodium sulfate	+++	+++	+++	+++
Solvents for rubber	0	++	+++	0

Stoddard solvent	0	+++	+++	+
Styrene	0	0	0	0
Sulfuric acid 10%	+++	+++	++	++
Sulfuric acid 95%	0	+	0	++
Sulfuric ether	+	+++	+++	+
Tartaric acid	+++	+++	+++	+++
Tetrachloroethane	0	0	+++	0
Tetrachloroethylene	0	0	+++	0
Tin chloride	+	+++	+++	+++
Toluene	0	0	+	0
Trichloroethylene	0	0	0	0
Turpentine	0	0	+++	+
Vegetable oils	0	++	+++	+
White spirit	0	++	+++	+
Xylene	0	0	++	0
Xylophene	0	+	+++	+
Zinc sulfate	+++	+++	+++	+++



Latex

Neoprene

PVC

Nitrile

+++ : Very good, for prolonged use but within the passage time (*)

++ : Good, for intermittent contact with the chemical material for less than the passage time (*)

+ : Average, against hazardous splashes (*)

0 : Not recommended, do not use this gloves in this matter against the chemical (*)

(*) Passage time : is defined as being the necessary duration for the chemical to pass from the external surface of the glove material to the other side of the material, according to the method of EN 374-3.

This guide only provides general information on materials and can not engage the responsibility of Singer® Safety.

The resistance of a glove depends on temperature, concentration of the chemical, the thickness of the glove, the immersion time, etc.

For your safety, testing should be performed prior to the use of gloves.

Always read carefully the instructions inclosed the product and check compliance with EN 374 and the levels obtained from the chemical involved.

When personal protective equipment cannot be used, protection of people at work must be ensured by an suitable fall arrest device, which will prevent from a fall of 1 meter maximum or which will limit in the same conditions the effects of a fall from a more important high. When such a personal protective equipment is used, the worker must never beeing alone in order to be rescued as soon as possible. (2004-927 Decree - 1. september 2004).

A personal fall arrest protection device includes several crucial elements and a set of standards:

- Body holding device (with one or more hooking points)
- Link between that device and an anchoring point
- Anchor device (anchoring point and structural anchor)

> BODY HOLDING

The safety harness, body holding system designed to prevent falls, attached directly to the user. This system can include various parts: straps, buckles, etc...

A harness includes at least one anchoring point (or attaching point) providing a link with a lanyard. This part is covered by standard **EN 361**: «Personal protective equipment against falls from a height: full body harnesses». The harness may also include a belt (body holding device around the waist). The belts are covered by standard **EN 358**: Personal protective equipment for work positioning and prevention of falls from a height: «Belts for work positioning and restraint and work positioning lanyards». The belts can also be used as work positioning and retention belts, when hooked up to a lanyard (in this case, the gear does not fulfil the fall arrest function).

> ANTI-FALL LINK (CONNECTING ELEMENT)

It is the link between the person – the harness – and the anchoring point. It is a lanyard that is typically made from rope, synthetic fibber, metal wire, strap or chain. Maximum length = 2 meters.

This part is covered by standard **EN 354** «Personal protective equipment against falls from a height: Lanyards». These elements can include an energy absorber; the energy absorber helps absorb the impact of a fall. This element is covered by standard **EN 355** «Personal protective equipment against falls from a height: Energy absorbers». The absorber is made up of a strap folded into a package. In the event of an impact, the package is torn open and the strap unfolds, thereby reducing the braking force to a non harmful level.

The anti-fall link is equipped with a connector that links to both: to the harness (fastening point) and to the anchoring point. The connectors can be made directly with the lanyard and/or the energy absorber or sold separately and fitted on using a karabiner.

The connectors are covered by standard **EN 362** «Personal protective equipment against falls from a height : Connectors». Iron or steel connectors should be protected against corrosion.

> ANCHOR DEVICE

Structural anchor - anchor device - anchoring point - PPE.

- Structural anchor. The anchoring device is covered by standard EN 795 «Protection equipment against falls from a heights - Anchor devices – Requirements and testing». **(EN 795)**
- Anchorage disposal «Component or series of components containing one or many anchorage points (EN 795)
- The anchorage system is in conformity with the EN 795 standard «Protection equipment from a heights - Anchor devices - Requirements and testing».

Various classes are defined in the standard according to the anchoring type.	
Class A1	Structural anchors designed to be secured to vertical, horizontal and inclined surfaces - PPE.
Class A2	Structural anchors designed to be secured to inclined roofs - PPE.
Class B	Transportable temporary anchor devices - PPE.
Class C	Anchor devices employing horizontal flexible lines - non PPE.
Class D	Anchor devices employing horizontal rigid anchor rails - PPE.
Class E	Dead weight anchors for use on horizontal surfaces - PPE.

There can be safeguard supports between the anchors :

- anchor rail connectable to PPE
- flexible anchor line connectable to PPE



> OTHER PRODUCTS

Guide type fall arresters on a rigid anchorage line: standard EN 353-1

«Retail system made of rigid anchorage line, mobile fall arrest system with automatic fall arrester and of a lanyard settled to the mobile fall arrester. An Energy absorber can be added to the mobile fall arrester, to the lanyard or to the anchorage line (EN 363).

- Static resistance: rigid anchorage line with settled mobile fall arrester and the lanyard: resist to a 15 kN force
- Dynamic performance: trial mass of 100 kg, braking force does not go over 6kN and stopping distance does not go over 1.0 m.

Guide type fall arresters on a flexible anchorage line: standard EN 353-2

«Retail system made of flexibel anchorage line, mobile fall arrest system with automatic fall arrester and of a lanyard settled to the mobile fall arrester. An energy absorber can be added to the mobile fall arrester, to the lanyard or to the anchorage line (EN 363).

- Static resistance:
 - anchorage line: resist to a 20 kN force
 - anchorage cable: resist to a 15 kN force
- Dynamic performance: trial rigid mass of 100 kg, braking force does not go over 6kN and stopping distance does not go over 3.0 m.

EN 360 standard :

Personal protective equipment against falls from a height- Retractable type fall arresters.

> OTHER STANDARDS

EN 365 Personal protective equipment against falls from a height: General requirements for instructions for use and for marking».

EN 363 Personal protective equipment against falls from a height - Fall arrest system. (...) this standard describes, using examples, the manner in which components or component assemblies can be connected in a fall arrest system. These examples should help the buyer or user assemble all components properly and form a fall arrest system» (does not include anchoring points). This standard also specifies «that a fall arrest harness and a lanyard without an energy absorber should not be used as a fall arrest system.»

EN 364 Personal protective equipment against falls from a height. Test methods. Specifies the test methods for elements of a PPE fall arrest system and device.

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GENERAL TERMS OF SALE

1. Object and scope

Any product order implies unconditional acceptance by the buyer and full compliance with these general terms of sale which prevail over any other document of the buyer, and particularly any general terms of purchase, except otherwise formally and expressly established by SINGER FRERES. These general terms of sale apply to all sales of products by SINGER FRERES unless otherwise agreed in writing by the parties prior to the order. As a result, the placing of an order by a customer implies the unconditional acceptance of these terms of sale by the customer, unless special terms have been granted to the buyer in writing by SINGER FRERES. Any other document apart from these general terms of sale and in particular catalogues, brochures, advertisements and notices are merely for information purposes and are non-contractual.

2. Contract formation – Orders

2.1- The price lists of SINGER FRERES do not constitute an offer, and orders are only valid once they have been accepted. **2.2-** Order shall mean any order concerning the products of SINGER FRERES appearing in its price lists, and accepted by SINGER FRERES. **2.3-** All orders are binding, unless expressly agreed otherwise in writing by SINGER FRERES. **2.4-** Any request to amend the composition or volume of an order placed by a customer can only be acted upon by SINGER FRERES if the request is made in writing, including by fax or email, and received by SINGER FRERES EIGHT (8) days at the latest following receipt of the initial order. SINGER FRERES reserves the right to deliver the quantities ordered with a tolerance of +/- FIVE PER CENT (5%).

3. Delivery – Transport

3.1- Delivery times are given for information purposes only, as they are dependent on the availability of the carriers and the order in which orders are received. Unless expressly agreed otherwise, no delay in delivery times shall result in compensation or cancellation of an order. This rule applies in particular to the following cases: **3.1.1-** non-compliance of the payment terms by the buyer. **3.1.2-** force majeure or event likely to delay or suspend the delivery of the goods. **3.2-** Products and supplies, even when agreed carriage free, travel at the risk of the buyer (customer) who shall be responsible, in the event of damages or losses, to enforce any reservations and exercise such redress against the carriers, who shall be solely responsible; delivery is therefore deemed to have taken place once the shipment has left the stores or warehouses of SINGER FRERES. **3.3-** The minimum order amount is one hundred and fifty (150) euros before tax. **3.4-** The carriage free amount is seven hundred (700) euros before tax for deliveries within mainland France. Orders that are not carriage free are subject to a transport fee of twenty-five (25) euros before tax.

4. Reception

4.1- Without prejudice to any redress to be exercised directly against the carrier by the buyer, claims concerning patent defects or non-compliance of the product delivered with the product ordered must be expressed in writing by registered letter with acknowledgement of receipt within EIGHT (8) days of delivery. After this period, any further claims shall not be accepted by SINGER FRERES. **4.2-** The buyer shall be responsible for supplying all supporting documents relating to the existence of any defects or anomalies found. **4.3-** The buyer shall give SINGER FRERES every opportunity to investigate said defects or anomalies and to remedy such defects where necessary. **4.4-** The buyer shall not make any repairs or have a third party make any repairs, otherwise no further redress may be exercised against SINGER FRERES.

5. Return – Terms

5.1- Any product return must be formally agreed in advance between SINGER FRERES and the buyer. **5.2-** Any product returned without such consent shall be kept for the buyer for a period of THREE (3) months in the premises of SINGER FRERES, and shall not result in the issuance of a credit note. After this period, any product unduly returned and not taken back shall be deemed to be abandoned by the buyer and SINGER FRERES shall be free to dispose of the product at its own discretion. **5.3-** Except in the event of non-compliance of the delivery with the order, attributable to SINGER FRERES, return costs and risks shall be borne by the buyer at all times. **5.4-** No return shall be accepted after a period of EIGHT (8) days following the delivery date.

6. Return – Consequences

6.1- Any return accepted by SINGER FRERES shall result in a credit note made out to the buyer after a quality and quantity inspection of the returned products. **6.2-** In the event of a patent defect or non-conformity of the products delivered, duly acknowledged by SINGER FRERES according to the conditions specified in Article 4 “Reception”, the buyer may request the free replacement of, or a refund for the products by SINGER FRERES exclusive of any other compensation.

7. Guarantees - Scope

7.1- Products are guaranteed against any material or manufacturing defect for a period of FIFTEEN (15) days following the delivery date. **7.2-** Any product benefiting from the guarantee should first be sent by the customer to SINGER FRERES. **7.3-** Under the guarantee, it shall be the duty of SINGER FRERES to replace or repair the product or part found to be defective by SINGER FRERES. **7.4-** Repairs under the guarantee shall not extend the term of the guarantee.

8. Guarantee - Exclusion

8.1- The guarantee shall not apply if the defect results from: normal wear of the item / faulty maintenance / abnormal use / any modification to the product not agreed to or specified by SINGER FRERES / an external accident / improper assembly / a defect resulting from force majeure / abnormal storage conditions at the customer's premises. **8.2-** In the same way, it is expressly agreed that the guarantee shall not apply to patent defects; in the event of a patent defect, the buyer must comply with Article 4 “Reception”. **8.3-** The responsibility of SINGER FRERES with regard to the guarantee created by the Act of 19 May 1998 (Articles 1386-1 et seq. of the

French Civil Code) is expressly excluded. The buyer shall not hold SINGER FRERES liable on this basis, either directly or through an impleader.

9. Price – Payment terms – Penalties

9.1- SINGER FRERES prices are set by the price list in force on the day of placing the order. Prices are stated before tax. Their firm or revisable nature and their amount shall be specified in the special terms. **9.2-** Invoices are payable at the SINGER FRERES head office: **9.2.1-** in cash, within a maximum period of EIGHT (8) days as from the invoice date after deducting a 0.5% discount, or by cheque or bank transfer. **9.2.2-** within a period agreed by the parties, according to Article L.441-6 of the French Commercial Code and the provisions of the Law on the Modernisation of the Economy (LME) of 4 August 2008, to pay the sums due at FORTY FIVE (45) days end of the month or SIXTY (60) days from the date of issue of the invoice, namely: **9.2.2.1-** by accepted draft issued by SINGER FRERES, within a maximum period of return of EIGHT (8) days as from the draft date, without any discount. **9.2.2.2-** by promissory note issued by the customer, within a maximum period of EIGHT (8) days as from the invoice date, without any discount. **9.3-** Failing payment on any due date, other outstanding amounts shall fall due immediately, even if they are subject to drafts. **9.4-** In addition, and in particular pursuant to Act 92-1442 of 31 December 1992 amended, any amount including tax not paid by the due date shall give rise: **9.4.1-** to payment by the customer of penalties fixed at three times the legal interest rate and calculated on the basis of the total outstanding amount. **9.4.2-** in application of Articles L. 441-3 and L. 441-6 of the French Commercial Code, to payment by the customer of a penalty charge as compensation for recovery costs. This penalty charge has been fixed at FORTY (40) euros net of tax per invoice by Decree 2012-1115 of 2 October 2012. Penalties and compensation shall become payable as of right and shall be automatically debited from the customer's account. **9.5-** When the buyer's credit deteriorates, SINGER FRERES reserves the right, even if an order has been partially shipped, to require any guarantee from the buyer as it deems fit for the proper performance of undertakings. Any refusal by the customer to provide any such guarantee shall entitle SINGER FRERES to cancel all or part of the orders or ongoing contracts. **9.6-** Exchange risks shall be borne by the buyer.

10. Force majeure

Occurrences such as force majeure or unforeseeable accidents are deemed to be outside the control of the parties, which they could not reasonably be expected to foresee, and which could not be prevented or overcome, insofar as their occurrence makes the execution of the obligations totally impossible. In particular, the following are deemed to be force majeure or unforeseeable accidents, releasing SINGER FRERES from its obligation to deliver within the originally scheduled times: lock-out, strikes by all or part of the personnel of SINGER FRERES or its usual suppliers or carriers, fire, war, production shut-downs due to accidental failure, the inability to obtain raw materials, epidemics, closure of transport routes due to heavy thaw, road blocks, strikes or disruption to supply of energy or to other supply not attributable to SINGER FRERES. In such circumstances, SINGER FRERES shall notify the customer by any written means, in particular by fax or email, within SEVENTY-TWO (72) hours from the date of occurrence of the incident. The contract will be suspended automatically without compensation, from the date of occurrence of the incident. If the incident should last more than THIRTY (30) days from the date of occurrence thereof, the contract of sale entered into by SINGER FRERES and its customer may be terminated by either party, without either party claiming the right to damages. Such termination shall take effect on the date of first presentation of the registered letter with acknowledgement of receipt terminating said sales contract.

11. Automatic termination clause

11.1- In the event of the buyer's failure to perform any one of its duties, the sale shall be automatically terminated without prejudice to any damages, additional charges or penalties that may be claimed by SINGER FRERES. **11.2-** Termination shall take effect automatically two days after the sending of a formal notice remaining without effect.

12. Dispute settlement – Applicable law

12.1- In the event of any difficulty to perform and/or interpret the agreements, any dispute, whatever the subject thereof, shall be brought before the exclusive competence of the Dunkirk Commercial Court, even in the event of any clause to the contrary in the customer's letters or invoice, or in the event of an impleader or multiple defendants. **12.2-** Any question relating to these general terms of sale as well as the sales governed by said terms, which are not covered by these contractual terms, shall be governed by French law to the exclusion of any other right, and on a suppletive basis by the Vienna Convention on the international sale of goods.

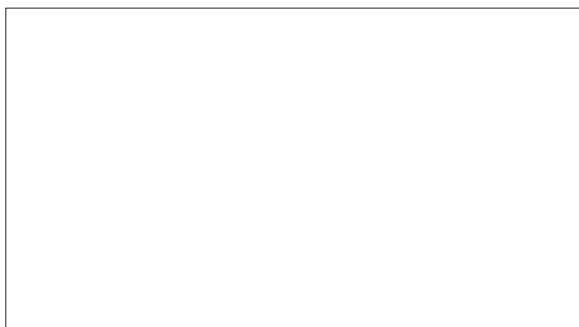
13. Reservation of title

13.1- Pursuant to the provisions of the Act dated 12 May 1980 and Article L. 624-16 paragraph 2 of the French Commercial Code, the seller shall retain ownership of the goods sold until the full payment of the principal and interest amount of the price. Any clause to the contrary, including any clause inserted in the general terms of purchase, shall be deemed null and void. **13.2-** Failure to pay on any of the due dates may result in the goods being reclaimed. These provisions do not prevent the risks connected with the products sold, as well as any liability for any damages they may cause, from being transferred to the buyer upon delivery.

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