

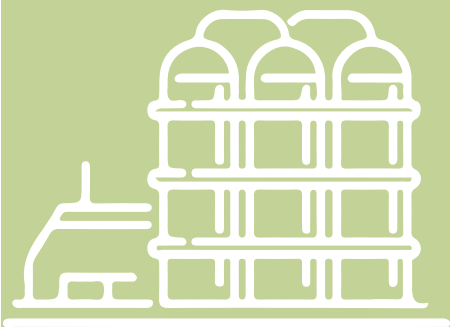


# Personal Protective Equipment

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# about us

## Our Vision

Mallcom's vision is to reach the highest levels in quality, innovation, reliability and perfection, through its products. We believe that our integrity is what will carve out a firm presence for us in the world of PPE.



## Corporate Outline

Mallcom (India) Ltd, is a pioneer in personal protection equipment. We have been manufacturing, exporting and distributing of a wide range of head-to-toe Personal Protective Equipment (PPE) since 1983. At Mallcom, our assortment of safety gear offers our clients a one-stop solution for all their safety concerns. As an integrated manufacturer of PPE, we offer an entire line of affordable PPEs, without compromising on quality. This has been one main reason, why our reliability in the quality of protection and safety equipment has been esteemed in the industry. Leveraging our experience, we feel confident that we will always exceed our customers' expectations in meeting their needs. Needless to say, we also take great pride





in our ability to customize our products according to their required specifications. With a goal to provide workforces the world over with superior products at the most competitive prices, our products are designed with the finest materials and crafted with attention-to-detail. Our clients' trust and satisfaction are our greatest profits; and when it comes to the business of serving our clients the best of our abilities, we hold as an essential tenet that we are a 'No Compromise' Company. Mallcom (India) Ltd. is an ISO 9001:2008 certified and SA 8000:2008 compliant company.

**Largest integrated  
Indian PPE brand**

**Listed on  
National Stock Exchange**

**13 manufacturing  
units across India**

**55+ countries,  
1000+ clientele**

**5 product categories,  
300+ SKUs**

**80+ dealers in the middle  
east & south east asia**

**3000+ skilled &  
semi-skilled workers**

**33% female  
workforce**

**EN/BIS/NFPA compliant  
labs & products**

**CSR concentration: sports,  
education and energy**



**OUR  
ACHIEVEMENTS**





# head protection





Mallcom has come up with comprehensive head protection - covering the head, eye, ear and face. Mallcom works in close coordination with the designers and the users to provide dynamic head protection gear. Mallcom has gained expertise in the entire safety manufacturing process, starting with sourcing to moulding and assembling them, and finally packaging of the many products in the safety range.



## JASPER I

Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
LDPE harness lining with 2 bands & 4 attachment points  
Zip adjustment and sweatband are available  
Head measurement 52 to 60 cm



Ergonomic design ensures comfort



UV resistant HDPE shell



Cap style peak for shade & improved visibility



Rain gutter for water drainage



Chin strap with guard



Chin strap without guard

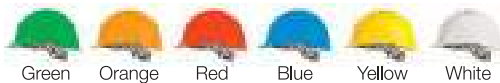


Adjustable chin strap for a better fit



Zip adjustment

### Available colours:



Green Orange Red Blue Yellow White





## JASPER II

Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
 LDPE harness lining with 2 bands & 4 attachment points  
 Ratchet adjustment and sweatband are available  
 Head measurement 52 to 60 cm

### Available colours:



## JASPER III

Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
 Textile harness lining with 2 bands & 4 fixing points  
 Ratchet adjustment and sweatband are available  
 Head measurement 52 to 60 cm

### Available colours:



## JASPER IV

Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
 Textile harness lining with 2 bands & 4 fixing points  
 Ratchet adjustment and sweatband are available  
 Head measurement 52 to 60 cm

### Available colours:



## DIAMOND I

Non ventilated industrial safety helmet

Safety helmet with UV resistant high density polyethylene (HDPE) shell

Textile lining with 3 bands & 8 attachment points

Sweatband and Zip adjustment are available

Head measurement 53 to 63 cm



Textile harness



Chin strap with guard



Chin strap without guard



Height adjustment



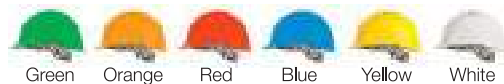
Zip closure



Ratchet closure



### Available colours:



Green Orange Red Blue Yellow White



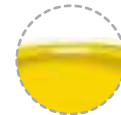
## DIAMOND II

Non ventilated industrial safety helmet  
 Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
 Textile lining with 3 bands with 8 attachment points  
 Ratchet adjustment and sweatband are available  
 Head measurement 53 to 63 cm

### Available colours:



Zip tightening  
with LDPE lining



Slot for ear  
defender



## DIAMOND III

Non ventilated industrial safety helmet  
 Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
 Textile lining with 3 bands with 8 attachment points  
 Ratchet adjustment and sweatband are available  
 Head measurement 53 to 63 cm

### Available colours:



Adjustable size:  
53 to 63 cm



Wheel ratchet



## DIAMOND IV

Non ventilated industrial safety Helmet  
 Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
 LDPE lining with 3 bands with 8 attachment points  
 Ratchet adjustment and sweatband are available  
 Head measurement 53 to 63 cm

### Available colours:



Comfort foam



Ratchet adjustment  
with LDPE lining



## SAFETY HELMET



### DIAMOND X

Ventilated industrial safety helmet  
UV-resistant high-density polyethylene (HDPE) safety helmet  
Textile lining with 3 bands with 8 attachment points  
Sweatband and zip adjustment are available  
Head measurement 53 to 63 cm

#### Available colours:



### DIAMOND XI

Ventilated industrial safety helmet  
Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
LDPE lining with 3 bands & 8 attachment points  
Sweatband and Zip adjustment are available  
Head measurement 53 to 63 cm

#### Available colours:



### DIAMOND XII

Ventilated industrial safety helmet  
Safety helmet with UV resistant high-density polyethylene (HDPE) shell  
Textile lining with 3 bands with & attachment points  
Ratchet adjustment and sweatband are available  
Wheel ratchet with comfort foam at the back  
Head measurement 53 to 63 cm

#### Available colours:



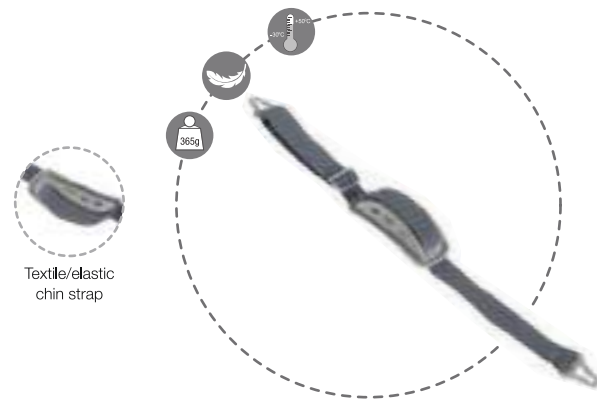
## HF I

Zip tightening with textile lining  
 Size 53 to 63 cm  
 Colour: grey



## RF I

Ratchet tightening with textile lining  
 Size 53 to 63 cm  
 Colour: grey



Textile/elastic chin strap

## CH02 STR

Textile/elastic chin straps with integrated chin strap  
 Size 28 to 48 cm  
 Colour: grey



## SAPPHIRE G

Lightweight impact-resistant short peak baseball type cap

Sturdy poly-cotton outer shell

Black coloured HDPE shell

EVA reinforcement with cotton and mesh polyester

Adjustable size by velcro band from 52 to 56 cm



Extended peak



Sturdy poly-cotton  
outer shell



Superior fabric



Outer view



HDPE



ABS

### Available colours:



Sapphire SP O



Sapphire SP B



Sapphire SP G



## SAPPHIRE SP B

Lightweight impact-resistant short peak baseball type cap  
 Sturdy poly-cotton outer shell  
 Black coloured HDPE shell  
 EVA reinforcement with cotton and mesh polyester  
 Adjustable single size by velcro band from 52 to 56 cm



Sturdy poly-cotton outer shell



ABS shell



Velcro

## TOPAZ O

Lightweight impact-resistant baseball type cap  
 Sturdy poly-cotton outer shell  
 Grey coloured ABS shell  
 Adjustable single size by velcro band from 58 to 62 cm



Sturdy poly-cotton outer shell



ABS inside shell



## TOPAZ HI VIS

Lightweight impact-resistant baseball type cap  
 EVA reinforcement with cotton and mesh polyester  
 Sturdy poly-cotton outer shell  
 Grey coloured ABS shell  
 Adjustable single size by velcro band from 58 to 62 cm



## EARPLUGS



### SN500P

Uncorded PU earplug  
SNR value: 34  
200 pairs/box  
Colour: orange PU



### SN03PC

PU earplug with nylon cord  
SNR value: 34  
300 pair/box  
Colour: light orange PU



### SN03PP

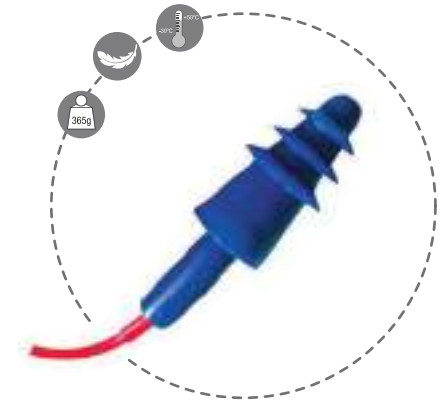
PU earplug with PVC cord  
SNR value: 34  
300 pair/box  
Colour: orange PU





## SN03SP

Silicone earplug with PVC cord  
 SNR value: 34  
 300 pair/box  
 Colour: blue silicone



## AVIATOR

Earmuff with sweat absorbent headband  
 SNR value: 28



## COMFY MUFF

Earmuff with sweat absorbent headband  
 SNR value: 32



## AVIOR

Interchangeable external colour lenses  
 Detachable temple for strap  
 Integrated soft nose piece  
 Removable foam for shock and dust protection  
 Individual goggles case, with padded lens holder chamber  
 Colour: orange, green, black, brown



Coloured glasses



Integrated nose piece



Optional shades



Specially designed rim



Glass holder



Cushioned pad



Side protection



Interchangeable headband and temple



Flexible grip



Optional

### Changeable lenses:



## ALTAIR

Safety goggles with polycarbonate frame  
 Two interchangeable lenses  
 Lens colour option  
 Transparent and classic grey temple  
 With adjustable angle removable eyebrow protector  
 Colour: transparent



Detachable frame with  
eyebrow protector



Detachable  
parts

## ORION

Safety goggles with polycarbonate frame  
 Removable eyebrow protector  
 Temples can be replaced with elastic headband  
 Detachable parts  
 Colour: transparent



Changeable  
lenses

## VEGA

Safety goggles with polycarbonate frame  
 5 different colour options for lenses  
 Removable eyebrow protector  
 Colour: black



## ORBIT

Clear polycarbonate single lens glasses  
Soft & flat spatula-type arms  
Colour: white



Clear polycarbonate lens



99% UV resistant



## PLUTO

Clear polycarbonate single lens glasses  
Adjustable and tilting nylon arms  
Lateral protection  
Arms with holes for neck cord  
Colour: white



## APOLLO

Clear polycarbonate single lens glasses  
Direct side ventilation  
Lateral protection  
Arms with holes for neck cord  
Colour: white



## LEPUS

IR3.0 welding glasses  
Speciality 3.0 ultraviolet infrared protective glasses  
Welding gas cutting  
Polished welding goggles  
Colour: black



## ULTRA AGENA

Toughened polycarbonate lens, which offers protection against flying particles

Lightweight soft PVC frame with internal lateral vents for wearer comfort

Woven elastic strap

Colour: white



Goggles with polycarbonate lens



PVC internal vents for wearer comfort



Elasticated tape



## ULTRA CIRRUS

Clear polycarbonate goggles  
Flexible PVC direct ventilation  
Woven elastic strap  
Colour: white



Clip attachment



Extended cover

## CIRRUS

Clear polycarbonate goggles  
Flexible PVC frame  
Indirect ventilation  
Woven elastic strap  
Colour: white



## AGENA

Clear polycarbonate lens  
Polypropylene frame  
Polyester and rubber blended elastic strap for ventilation  
Colour: white



## M 1202P

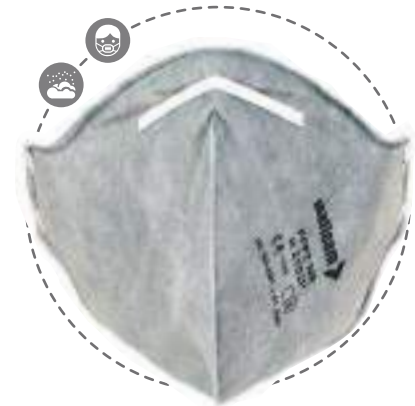
Disposable FFP2 face mask  
Foldable type nose clip for a better fit  
Ultrasonically sealed mask  
Head loop elastic fastening system





## M 2102P

Disposable FFP1 face mask  
 Exhalation valve is available  
 Foldable type nose clip for a better fit  
 Ultrasonically sealed mask  
 Head loop elastic fastening system  
 Colour: grey



## M 3102PV

Aesthetically designed  
 Foldable FFP1 face mask  
 Particulate matter filtering disposable mask  
 Aluminium nose clip  
 Ultrasonically sealed mask  
 Head loop elastic fastening system  
 Colour: yellow



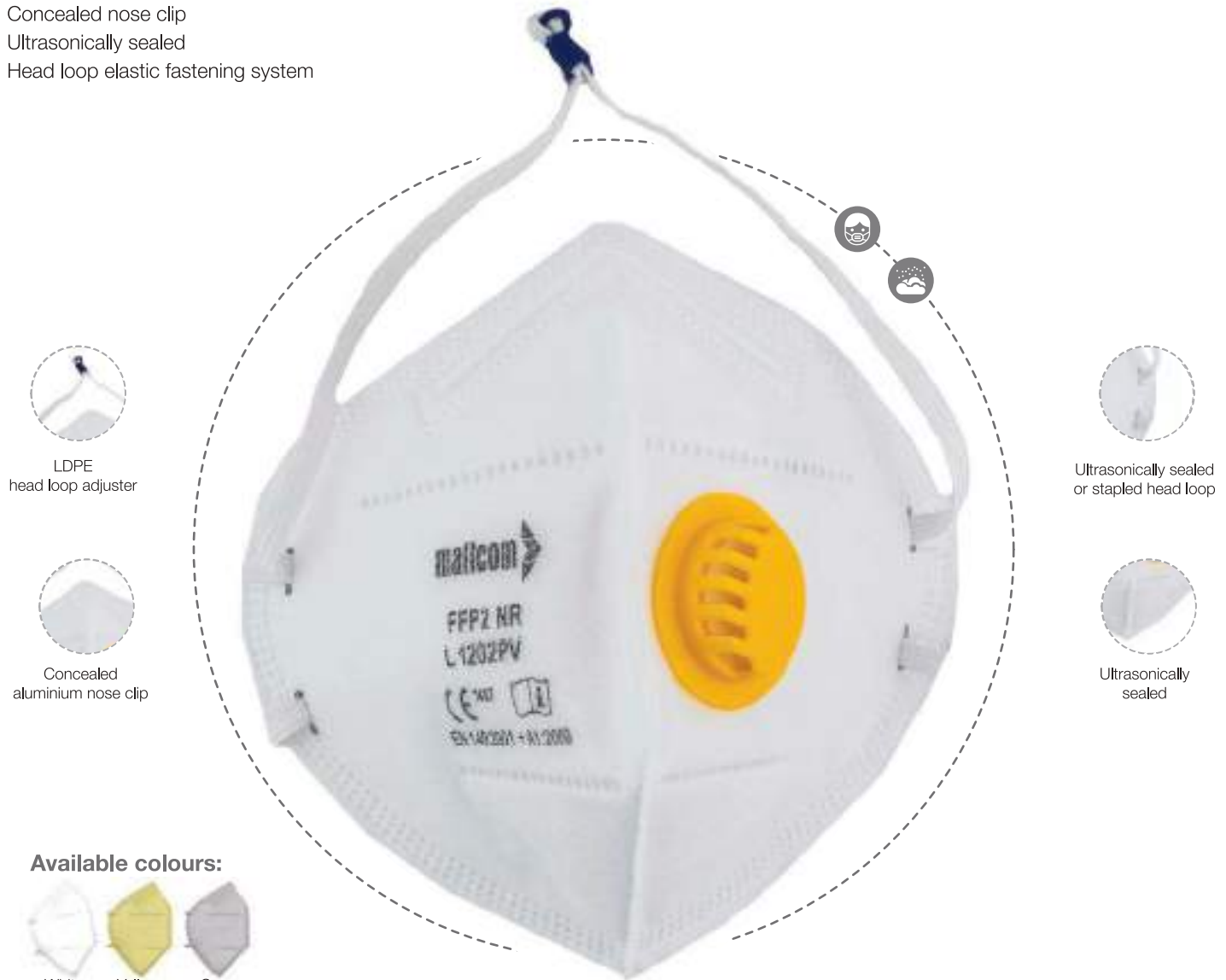
## M 1202PV

Disposable FFP2 face mask  
 Exhalation valve is available  
 Foldable type nose clip for a better fit  
 Ultrasonically sealed mask  
 Head loop elastic fastening system  
 Colour: white



## L1202PV

Aesthetically designed foldable FFP2 face mask  
Particulate matter filtering disposable mask  
Exhalation valve is available  
Concealed nose clip  
Ultrasonically sealed  
Head loop elastic fastening system



LDPE  
head loop adjuster



Concealed  
aluminium nose clip

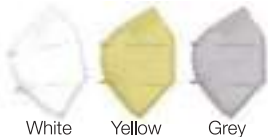


Ultrasonically sealed  
or stapled head loop



Ultrasonically  
sealed

### Available colours:



White

Yellow

Grey



## L 2102PV

Aesthetically designed foldable FFP1 face mask  
 Particulate matter filtering disposable mask  
 Exhalation valve is available  
 Concealed nose clip  
 Ultrasonically sealed  
 Head loop elastic fastening system  
 Colour: grey



## L 1102P

Aesthetically designed foldable FFP1 face mask  
 Particulate matter filtering disposable mask  
 Concealed nose clip  
 Ultrasonically sealed  
 Head loop elastic fastening system  
 Colour: white



## L 3202P

Aesthetically designed foldable FFP2 face mask  
 Particulate matter filtering disposable mask  
 Concealed nose clip  
 Ultrasonically sealed  
 Head loop elastic fastening system  
 Colour: yellow



## L3103P

Aesthetically designed foldable FFP1 face mask  
Particulate matter filtering disposable mask  
Concealed nose clip  
Ultrasonically sealed  
Ear loop elastic fastening system



Foldable type



Foam padded concealed aluminum nose clip for adjustment



Adjustable elastic strap for fastening



Head loop adjuster

### Available colours:



White

Yellow

Grey



## L2103PV

Aesthetically designed foldable FFP1 face mask  
 Particulate matter filtering half mask  
 Concealed nose clip  
 Exhalation valve is available  
 Ultrasonically sealed  
 Ear loop elastic fastening system  
 Colour: grey



## L1203PV

Aesthetically designed foldable FFP2 face mask  
 Particulate matter filtering half mask  
 Concealed nose clip  
 Exhalation valve is available  
 Ultrasonically sealed  
 Ear loop elastic fastening system  
 Colour: white



## L1203P

Aesthetically designed foldable FFP2 face mask  
 Particulate matter filtering half mask  
 Concealed nose clip  
 Ultrasonically sealed  
 Ear loop elastic fastening system  
 Colour: white



## FACE MASK



### L 3302PV

Aesthetically designed foldable FFP3 face mask  
Particulate matter filtering half mask  
Concealed nose clip  
Ultrasonically sealed  
Head loop elastic fastening system  
Colour: yellow



### L 2302P

Aesthetically designed foldable FFP3 face mask  
Particulate matter filtering half mask  
Concealed nose clip  
Exhalation valve is available  
Ultrasonically sealed  
Head loop elastic fastening system  
Colour: grey



### L 2302PV

Aesthetically designed foldable FFP3 face mask  
Particulate matter filtering half mask  
Concealed nose clip  
Exhalation valve is available  
Ultrasonically sealed  
Head loop elastic fastening system  
Colour: grey



## CK86P3

Non sterile  
 Pleated disposable 3-layer hygiene mask  
 Concealed strip to fit securely on the nose offers snugly fitting  
 Elastic ear hooks for comfort during wearing  
 Ultrasonic sealing ensures strong bonding  
 Colour: Hospital blue, medical green, black, pink,  
 floral blue, floral red, floral green



## CM86P3

Non-sterile  
 Pleated disposable 3-layer hygiene mask  
 Concealed strip to fit securely on the nose offers snugly fitting  
 Elastic ear hooks for comfort during wearing  
 Ultrasonic sealing ensures strong bonding  
 Colour: Hospital blue, medical green, black, pink,  
 floral blue, floral red, floral green



## LK86L3

Non-sterile  
 Pleated disposable 3-layer hygiene mask  
 Aesthetically printed design  
 Concealed nose clip to fit securely on the nose offers snugly fitting  
 Elastic ear hooks for comfort during wearing  
 Ultrasonic sealing ensures strong bonding  
 Colour: Hospital blue, medical green, black, pink,  
 floral blue, floral red, floral green





# hand protection







Mallcom's has gained unparalleled expertise in production of hand gear suiting the application requirement. From driving to welding applications to cut resistant, we are able to meet crucial industrial applications. A wide range of hand protection gears lie in the repertoire of Mallcom, including leather gloves, string knit gloves and nitrile supported gloves - both cut-n-stitch and seamless.



### DFRB

High performance cut and stitch nitrile gloves  
Level 5 cut-resistant fibreglass blended para-aramid inside liner  
Heavy nitrile coating on the outside  
Cotton fleece shell rexin cuff material  
Size: 7-11



## TPCB

Heavy palm nitrile dipped gloves  
 100% cotton jersey lining  
 Safety cuff  
 Blue colour coating  
 Size: 7-11



## TPCB-R

Heavy palm nitrile dipped gloves with rough surface finishing  
 100% cotton jersey lining  
 Safety cuff  
 Blue colour coating  
 Size: 7-11



## TPKB

Heavy palm nitrile dipped gloves  
 Knitted wrist  
 100% cotton jersey lining  
 Open back style affords flexibility and ventilation  
 Size: 7-11





### MPCB

Medium palm dipped nitrile gloves with safety cuff  
Nitrile dipped in 100% cotton interlock lining  
Treated with sanitized ventilated back  
Size: 7-11



### MPKB

Medium palm nitrile dipped gloves  
100% cotton interlock lining  
Knitted wrist for prevention of dust  
Size: 7-11



### MFCB

Medium full dipped nitrile gloves with safety cuff  
Nitrile dipped in 100% cotton interlock lining  
Size: 7-11



## MFKB

Medium full nitrile dipped gloves in 100% cotton  
Interlock lining knitted of the wrist for prevention of dust  
Size: 7-11



## TFCB

Heavy full nitrile dipped gloves  
100% cotton jersey lining with safety cuff  
Size: 7-11



## TFKB

Heavy full nitrile dipped gloves  
100% cotton jersey lining  
Knitted wrist for prevention of dust  
Size: 7-11





### LPKY

Light palm yellow nitrile coated gloves  
Cotton interlock knitted fabric lining  
Knitted wrist for prevention of dust  
Size: 7-11



### LPKB

Light palm blue nitrile coated gloves  
Knitted wrist for prevention of dust  
Size: 7-11



### LFKY

Light full yellow nitrile coating on interlock knit fabric  
Knitted wrist for prevention of dust  
Size: 7-11



## TECHO IL 40

40 cm gauntlet style nitrile glove  
 Yellow coloured heavy NBR full coating  
 Cotton Interlock lining  
 Size: 7-11



## TECHO FL 30

30 cm gauntlet style nitrile glove  
 Blue coloured heavy NBR full coating  
 Cotton fleece lining  
 Size: 7-11



## TECHO FL 40

40 cm gauntlet style nitrile glove  
 Blue coloured heavy NBR full coating  
 Cotton fleece lining  
 Size: 7-11







## B33NBG

13 gauge high cut resistant seamless nitrile gloves  
Steel filament blended Dyneema® yarn knitted liner  
NBR coated palm with sandy finish  
Size: 7-10



## D33NBG

13 gauge high cut resistant seamless nitrile gloves  
Fiber glass blended Dyneema® yarn knitted liner  
NBR coated palm with sandy finish  
Size: 7-10



## D45NHK

Dual coated 13 gauge high cut resistant seamless nitrile gloves  
Fiber glass blended Dyneema® yarn knitted liner  
NBR coated palm with sandy finish  
Size: 7-10



## CUT RESISTANT NITRILE GLOVES



### F33NBG

13 gauge high cut resistant seamless nitrile gloves  
UHMWPE & Spandex blended grey coloured liner coated with  
black NBR  
Blade cut resistant level 3 as per EN 388 standard  
Offers excellent grip performance  
Size: 7-11



### H33NHN

13 gauge high cut resistant seamless dual-layered nitrile  
coated gloves  
Palm black sandy coating over 3/4th blue smooth finish  
UHMWPE & glass fiber blended grey coloured liner  
Blade cut resistant level 5 as per EN 388 standard  
Size: 7-11



### E33NBG

13 gauge high cut resistant seamless nitrile gloves  
HPPE & steel based fiber blended grey coloured liner coated with  
black NBR excellent abrasion and tear-resistant sandy finish  
Size: 7-11



## F33NHK

13 gauge high cut resistant seamless dual-layered nitrile coated gloves

Palm black sandy coating over 3/4th blue smooth finish UHMWPE & spandex blended grey coloured liner

Blade cut resistant level 3 as per EN 388 standard

Size: 7-11



## L83NBG

13 gauge high cut resistant seamless nitrile gloves

UHMWPE and glass fibre-based liner with orange polyester plating outside

NBR coated palm with sandy finish

Size: 7-11



## G65NBG

13 gauge high cut resistant seamless nitrile gloves

UHMWPE and glass fiber based liner with Hi-vis green polyester plating outside

NBR coated palm with sandy finish

Size: 7-11



## IMPACT RESISTANT NITRILE GLOVES

### H33TDL

Impact shielded level 5 cut resistant nitrile gloves  
13 gauge melange seamless liner  
UHMWPE & glass fiber blended liner  
Flexible m-KARPALS PROTECT patch back  
Sandy finish black NBR palm coating  
Size: 7-10



## LR3TDL

Impact shielded level 5 cut resistant nitrile gloves  
 13 gauge yellow seamless liner  
 Flexible m-KARPALS PROTECT patch back  
 UHMWPE & glass fiber blended liner  
 Sandy finish black NBR palm coating  
 Size: 7-10



## L83TDL

Impact shielded level 5 cut resistant nitrile gloves  
 13 gauge orange seamless liner  
 Flexible m-KARPALS PROTECT patch back  
 UHMWPE & glass fiber blended liner  
 Sandy finish black NBR palm coating  
 Size: 7-10



## G65TDL

Impact shielded level 5 cut resistant nitrile gloves  
 13 gauge Hi-vis green seamless liner  
 Flexible m-KARPALS PROTECT patch back  
 UHMWPE & glass fiber blended liner  
 Sandy finish black NBR palm coating  
 Size: 7-10



## SEAMLESS NITRILE GLOVES

### P35NHK

15 gauge polyester knitted seamless double-layered nitrile coated gloves

Palm black sandy coating over 3/4th blue smooth finish

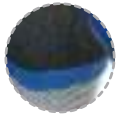
Good chemical resistant

Provides fine dexterity

Size: 7-11



15 Gauge  
polyester knitted



Dual nitrile  
coated



PP overlock  
binding



### P35NBA

15 gauge polyester knitted seamless nitrile gloves  
Black nitrile coated on grey coloured polyester shell  
Offers excellent grip performance when handling slippery or oily surfaces  
Smooth finish  
Size: 7-11



### P35NBG

15 gauge polyester knitted seamless nitrile gloves  
Black nitrile coated on grey coloured polyester shell  
Offers excellent grip when handling dry or oily surfaces  
Absorbs oil from oily environment to restrict slipping chances  
Sandy finish  
Size: 7-11



### P25NGA

15 gauge polyester knitted seamless nitrile gloves  
Grey nitrile coated on white coloured polyester shell  
Nitrile coating gives an impressive grip on wet or oily surfaces  
Provides fine dexterity to ensure outstanding performances  
Smooth finish  
Size: 7-11



## SEAMLESS NITRILE GLOVES



### P35NBD

15 gauge polyester knitted seamless nitrile gloves  
Black nitrile coated on grey coloured polyester shell  
Offers excellent grip performance when handling slippery or oily surfaces  
Foam finish  
Size: 7-11



### P65NAG

Seamless polyester nitrile gloves  
15 gauge Hi-vis green polyester liner  
Sandy finish blue NBR palm coating  
Size: 7-11



### P85NAG

Seamless polyester nitrile gloves  
15 gauge orange polyester liner  
Sandy finish blue NBR palm coating  
Size: 7-11





## N33VBA

13 gauge grey nylon seamless nitrile gloves  
 PVC dots on palm for better gripping  
 Black nitrile coated on grey nylon/polyester  
 Excellent abrasion & tear resistance  
 Size: 7-11



## M35NBV

Nylon and spandex blended 15 gauge seamless gloves  
 Foamyflex® coating technology  
 Highly dextrous  
 Size: 7-11



## K63NBG

Seamless 13 gauge para-aramid knitted nitrile gloves  
 Heat & mechanical resistant gloves  
 Coated with black NBR  
 Sandy finish  
 Size: 7-11



## SYNTHETIC GLOVES

### NF153G

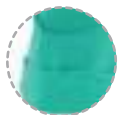
Flock lined nitrile gloves designed for high dexterity  
Available in 15 mil thickness  
Ideal for handling acids, oils & greases  
Raised diamond pattern grip  
Size: 8-10



Diamond grip pattern



Gauntlet style glove



Unsupported nitrile gloves



## NE282B

Unsupported heavy-duty neoprene gloves  
 Ideal for handling a variety of chemicals  
 Raised diamond pattern grip  
 Thickness 28 mil  
 Size: 8-10



## NEB213BY

Neoprene blended bi-colour gloves  
 Provides much of the same protection as NE282B at economical costs  
 Raised diamond pattern grip  
 Thickness 21 mil  
 Size: 7-11



## NU113G

Unlined nitrile gloves designed for high dexterity  
 Available in 15 mil thickness  
 Ideal for handling acids, oils & greases  
 Raised diamond pattern grip  
 Size: 8-10



## LATEX GLOVES



### L1520

Light weight unchlorinated natural latex gloves  
Ideal for use during food handling and food processing & also in  
contaminant object handling  
Patterned grip  
Good tactile sensitivity and protection against animal fats, vegetable oil  
Available colours: white, pink, orange  
Size: 7-11



### LU448A

Weight 40g  
Orange coloured unsupported latex gloves  
Powdered unlined gloves with raised diamond pattern grip  
Good abrasion resistance  
Size: 8-10



### LF649B

Weight 60g  
Yellow coloured unsupported latex gloves non-powdered  
Flock lined raised diamond pattern grip  
Good abrasion resistance  
Size: 8-10



## L152G

Light weight unchlorinated natural latex gloves  
 Ideal for use during food handling and food processing & also in  
 contaminant object handling  
 Patterned Grip  
 Good tactile sensitivity and protection against animal fats,  
 vegetable oil  
 Available colour: grey  
 Size: 7-11



## L152P

Light weight unchlorinated natural latex gloves  
 Ideal for use during food handling and food processing  
 & also in contaminant object handling  
 Patterned grip  
 Good tactile sensitivity and protection against animal fats, vegetable oil  
 Available colour: pink  
 Size: 7-11



## L152Y

Light weight unchlorinated natural latex gloves  
 Ideal for use during food handling and food processing & also in  
 contaminant object handling  
 Patterned grip  
 Good tactile sensitivity and protection against animal fats,  
 vegetable oil  
 Available colour: pink  
 Size: 7-11



### P363G

Polyurethane coated gloveS

High cut resistant

13 gauge black melange seamless liner

Grey PU coating on palm and fingertips

Better elasticity Ideal for the gripping

Size: 7-10



13 gauge  
knitted



PU coated cut  
resistant gloves



PP overlock  
binding



## P213W

Polyurethane coated gloves  
 13 gauge white seamless liner  
 White PU coating on palm and fingertips  
 Better elasticity ideal for the gripping  
 Size: 7-10



## P313G

Polyurethane coated gloves  
 13 gauge white seamless liner  
 Grey PU coating on palm and fingertips  
 Better elasticity ideal for the gripping  
 Size: 7-10



## P513B

Polyurethane coated gloves  
 13 gauge white seamless liner  
 Black PU coating on palm and fingertips  
 Better elasticity ideal for the gripping  
 Size: 7-10



## PVC GLOVES



### PV27R/PV35R

PVC coated hand gloves  
Red in colour  
Cotton flock lining  
27 cm & 35 cm length options are available  
Resistant to chemicals  
Total alcohol impermeability  
Size: 10



### PV27B/35B

PVC coated hand gloves  
Black in colour  
Cotton flock lining  
27 cm & 35 cm length options are available  
Resistant to chemicals  
Total alcohol impermeability  
Size: 10



### VP49TL/VP49SL

30 cm long blue PVC dipped gloves with a smooth finish  
Size: 10





## VP49ML

40 cm long blue PVC dipped gloves with a smooth finish  
Size: 10



## VS38TL

27 cm long blue PVC dipped gloves with insulation lining inside  
Sandy finish  
Size: 10



## VP29TR

27 cm long red PVC dipped gloves with insulation lining inside  
Rough finish  
Size: 10



## WOVEN PARA-ARAMID GLOVES

### KW1277A

Heat and flame resistant welder gloves  
480 GSM woven para-aramid gloves with natural split leather back  
15 cm natural split leather cuff  
Cotton lining inside  
Contact heat resistivity is up to 200°C for 15 sec  
Size: 10



480 GSM non woven fabric



Para aramid yarn stitched



Natural split leather back



15 cm split leather cuff



## KD4377B

Heat and flame resistant welder gloves  
 480 GSM woven para-aramid gloves  
 15 cm natural split leather cuff  
 Cotton lining inside  
 Contact heat resistivity is up to 200°C for 15 sec  
 Size: 10



## KW4377B

Heat and flame resistant welder gloves  
 480 GSM woven para-aramid gloves  
 15 cm para-aramid cuff  
 Cotton lining inside  
 Contact heat resistivity is up to 200°C for 15 sec  
 Size: 10



## KW1277B

Heat and flame resistant welder gloves  
 480 GSM woven para-aramid gloves with natural split leather back  
 15 cm natural split leather cuff  
 Cotton lining inside  
 Contact heat resistivity is up to 200°C for 15 sec  
 Size: 10



## PARA-ARAMID GLOVES



### KCL15

Welder gloves with seamless para-aramid palm  
Heat resistant russet split 15 cm slit cuff  
Palm is interlined with cotton liner  
100% para-aramid stitching on the gloves  
Temperature resistivity 200°C for 10 seconds  
Size: 8-10



### KCL

Heat resistant gloves  
Para-aramid technology  
100% inside cotton liner  
Available in gauge 7  
2200 gms/Dzp  
Temperature resistivity 200°C for 10 seconds  
Size: 9-10



### K007/K010

Heat resistant gloves  
100% para-aramid  
Available in gauge 7 & 10  
830 gms/dzp  
Ambidextrous, seamless  
Size: 9-10



## KP07

100% para-aramid pile gloves  
 Elasticized para-aramid pile wrist  
 1440 -1600 grams per dozen pair  
 Terry towel finish  
 Size: 9-10



## KL010

100% para-aramid fibre  
 Seamless 7 & 10 gauge shell  
 Leather palm added for enhanced cut protection  
 Size: 9-10



## K007D/K010D

Heat resistant gloves  
 7 and 10 gauge seamless knitted gloves  
 970 gms/dzp (K007D) 700 gms/dzp (K010D)  
 100% para-aramid  
 PVC dotting on palm side  
 Ambidextrous  
 Size: 9-10



## PERFORMANCE KNITTED GLOVES



### H33G5

13 gauge seamless high cut resistant knitted gloves  
Yarn blended with UHMWPE & glass-based fibre  
Achieved blade cut resistant level 5  
Size: 7-10



### P151A

Conductive gloves  
White 100% polyester knitted seamless gloves  
Thumb, index and middle fingertip has carbon fiber for electrical conductivity  
Size: 7-10



### P153S

Antislip gloves  
Grey 100% polyester knitted seamless gloves  
13 gauge knitting  
Size: 7-10



## PL010

10 gauge seamless high cut resistant knitted gloves  
 Reinforced palm with split leather patch  
 Yarn blended with para-aramid & polyamide fiber  
 Achieved blade cut resistant level 3  
 Size: 8-10



## HL010

10 gauge seamless high cut resistant knitted gloves  
 Reinforced palm with split leather patch  
 Yarn blended with UHMWPE & glass fibre  
 Achieved blade cut resistant level 5  
 Size: 8-10



## FL010

10 gauge seamless high cut resistant knitted gloves  
 Reinforced palm with split leather patch  
 Yarn blended with UHMWPE & spandex fibre  
 Achieved blade cut resistant level is 3  
 Size: 8-10



### TM534

Metacarpal protected natural grain leather mechanical gloves  
Synthetic yellow fabric back  
Velcro adjustable knitted cuff  
Hi-vis tape stitched on fingertips  
Grey flexible SIMUM patch for seamless performance  
Size: 9 -11





## TM564

Metacarpal protected natural grain leather mechanical gloves  
 Synthetic orange fabric back  
 Velcro adjustable knitted cuff  
 Hi-vis tape stitched on finger tips  
 Grey flexible SIMUM patch for seamless performance  
 Size: 7 -11



## TM554

Metacarpal protected yellow grain leather mechanical gloves  
 Grain yellow leather back  
 Velcro adjustable knitted cuff  
 Hi-vis tape stitched on fingertips  
 Grey flexible SIMUM patch for seamless performance  
 Size: 7 -11



## TM274

Metacarpal protected natural grain leather mechanical gloves  
 Grain natural leather back  
 Velcro adjustable knitted cuff  
 Hi-vis tape stitched on fingertips  
 Grey flexible SIMUM patch for seamless performance  
 Size: 7 -11





### TM284

Metacarpal protected natural grain leather mechanical gloves  
Black synthetic fabric back  
Velcro adjustable knitted cuff  
Hi-vis tape stitched on fingertips  
Orange flexible SIMUM patch for seamless performance  
Size: 7 - 11



### TM294

Metacarpal protected high cut resistant leather driver gloves  
Glass fiber blended para-aramid lining inside  
Green flexible DUDHWA impact-resistant patch on back  
Natural grain palm and elasticized back  
Size: 7 - 11



### BE2258

Metacarpal protected high cut resistant leather driver gloves  
Glass fiber blended para-aramid lining inside  
Blue flexible SIMUM metacarpal for seamless performance  
Natural grain Leather elasticized back  
Size: 7 - 11



## BE2208

Metacarpal protected high cut resistant leather driver gloves  
 Glass fiber blended para-aramid lining inside  
 Yellow flexible SIMUM metacarpal for seamless performance  
 Natural grain leather elasticized back  
 Size: 7 - 11



## TM297

Metacarpal protected high cut resistant leather gloves  
 Glass fiber blended para-aramid fabric-lined palm  
 Reinforced thumb crotch and fingertip  
 Orange flexible DUDHWA metacarpal for seamless performance  
 Breathable fabric and elasticized back  
 Size: 7 - 11



## TM294-H

Meta carpal protected high cut resistant leather gloves  
 Glass fiber blended para-aramid fabric-lined palm  
 Reinforced thumb crotch and fingertip  
 Green flexible DUDHWA metacarpal for seamless performance  
 Breathable fabric and elasticized back  
 Size: 7 - 11



## F524

All natural cow split welder gloves  
15 cm natural split cuff vein protection  
Heat resistant up to 100°C for 15 sec  
Size: 9-11



Grain/Split combination



Premium quality split leather



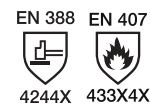
Vein protection



F 524-L  
Canvas lining on palm & cuff



F 524-R  
Reinforcement on palm



EN 12477+A1  
Type A



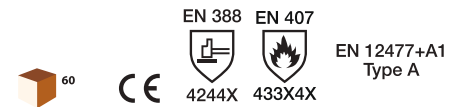
## F522DP

Palm reinforced welder gloves  
 Split leather cuff 7 cm cuff length  
 Heat resistant up to 200°C for 15 sec  
 Size: 9-11



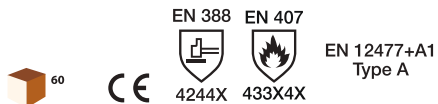
## F214

Goat grain welder gloves with split cuff  
 Split cuff 15 cm in length  
 Ideal MIG and TIG application  
 Heat resistant up to 100°C for 15 sec  
 Size: 9-11



## F224

Grain welder gloves with split cuff  
 Split cuff 15 cm in length  
 Excellent tear-resistant  
 Good dexterity  
 Heat resistant up to 100°C for 15 sec  
 Size: 9-11



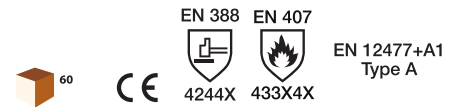
## WELDER GLOVES



Grain/Split  
combination

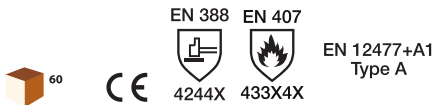
### F234

Natural combined welder gloves  
Natural grain palm split leather back  
15 cm split cuff  
Heat resistant up to 100°C for 10 sec  
Size: 9-11



### F437

Dyed red split leather welder gloves  
Heat resistant up to 100°C for 10 sec  
Inner cotton fleece lining  
15 cm canvas lined cuff  
Size: 9-11



F 437  
orange

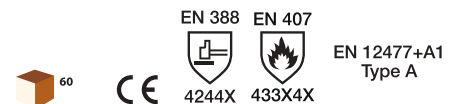


### H544K

Fire and heat resistant welder gloves  
Lining in 100% wool  
Sewn para-aramid thread  
Heat resistant up to 200°C for 15 sec  
Size: 9-11

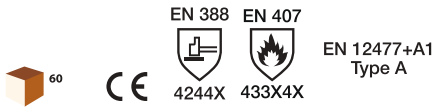


Kevlar thread  
stitching



## H468

Water repellent full grain welder gloves  
 Excellent abrasion resistant  
 Excellent for use in a cold environment  
 Aluminium sheet lining insert  
 20 cm split leather cuff with adjustable velcro  
 Para-aramid stitched gloves  
 Heat resistant up to 200°C for 15 sec  
 Size: 9-11

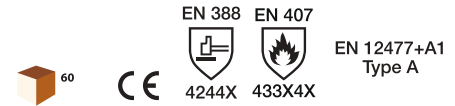


Velcro adjustment



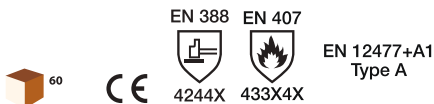
## KWS15

100% Para-aramid  
 Mitten style  
 Fully insulated for high-temperature resistance  
 Soft split leather at cuff  
 Protection from flame and contact heat  
 Heat resistant gloves  
 Size: 9-11



## HAMK

Fire and heat resistant welder gloves  
 Aluminized preox fabric used at back cuff  
 Protection against radiant and molten splash  
 Sewn with para-aramid thread  
 Lining in 100% wool  
 Heat resistant up to 200°C for 15 sec  
 Size: 9-11



Aluminized preox fabric



### F834

Dyed split leather welder gloves

Back and thumb made from single piece leather

Leather reinforcement on palm

Non-woven lining inside the palm,

Cuff lined with jeans fabric

High contact heat resistant gloves 350°C for 15 sec

Size: 9-11



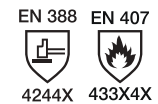
Reinforced palm



Reinforced palm



Elongated cuff



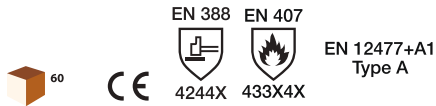
EN 12477+A1  
Type A





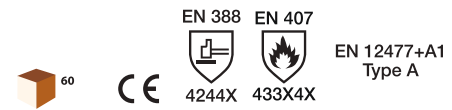
## F667

Dyed blue 100% split leather welder gloves  
 Back and cuff in a single piece  
 Leather yellow  
 Split leather palm and knuckle protection  
 Lined with cotton canvas  
 High contact heat resistant gloves 100°C for 15 sec  
 Size: 8 - 11



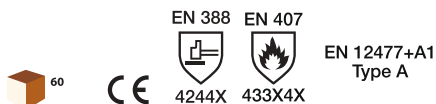
## H224K

Heat resistant gloves  
 Natural grain leather palm with vein protection  
 Split leather cuff with para-aramid inside lining  
 Para-aramid stitching  
 Hi-vis fabric trimming  
 High contact heat resistant gloves 200°C for 15 sec  
 Size: 9 - 11



## H044K

Heat resistant gloves  
 Yellow dyed split welder gloves  
 Split leather cuff with 15 cm cuff length  
 Seamless para aramid lined palm  
 Para-aramid stitching on the gloves  
 High contact heat resistant gloves 200°C for 15 sec  
 Size: 9 - 11



## LEATHER GLOVES



Elastic cuff with pulse protection

### D204

Natural grain leather driver gloves  
Cotton knitted fabric back  
Knitted elastic cuff pulse protection  
Wing thumb  
Size: 7 - 11



### D232

Natural grain leather driver gloves  
Wing thumb  
Elasticized back  
Synthetic coloured binding tape at the end of the cuff  
Size: 7 - 11



D333

Binding at Cuff

### D591

Natural split leather driver gloves  
Wing Thumb  
Elasticized back  
Synthetic coloured binding tape at the end of the cuff  
Size: 7 - 11



**C542**

Natural split canadian gloves  
 Blue cotton drill fabric back  
 Rubberised cuff  
 Cotton inside lining  
 Knuckle protection  
 Size: 7 - 11



Knuckle  
 protection

**C232R**

Natural cow grain canadian gloves  
 Reinforcement on palm and thumb  
 Striped cotton back  
 Rubberised cuff  
 Knuckle protection  
 Size: 7 - 11

**C853**

Reinforced split leather canadian gloves  
 Dyed split green reinforcement over palm thumb and index finger  
 Cotton inside lining  
 Cotton blue drill fabric back  
 Rubberized cuff  
 Size: 7 - 11



Reinforcement





### SLJB01

Leather welder jacket in 100% natural grain  
Sewn with para-aramid thread  
Velcro fastening on the front placket  
Available in split and grain leather  
180° contact heat temperature resistant  
Size: S-XXL



**Class 2A1**  
**EN 11611**

### SLTE01

Leather welder trouser in 100% natural grain  
Sewn with para-aramid thread  
Metallic stud button for fly closure  
Available in split and grain leather  
180° contact heat temperature resistant  
Size: S-XXL



**Class 2A1**  
**EN 11611**



### SLHE01

100% natural split leather welder hood  
Front velcro closure covers head and neck  
Free size also available in grain leather  
180° contact heat temperature resistant



**Class 2A1**  
**EN 11611**



### SLGE01

Leather leg guards in 100% natural grain  
Velcro fastening to ensure proper grip  
Free size also available in split leather



**Class 2A1**  
**EN 11611**



**C233PV**

Acrylic/polyester gloves  
 Crisscross PVC pattern  
 Palm and back dotting  
 Ideal for gripping  
 Size: 7-10



Crisscross  
PVC pattern

**K63NAA**

Nitrile coating on para-aramid string knits  
 Available in light, medium and heavy shells  
 Excellent cut and abrasion resistant  
 Size: 7-10

**L210B**

Blue latex coated gloves  
 Wrinkle palm  
 Knit wrist  
 Seamless poly cotton lining  
 Size: 7-10



## CRYO GLOVES



### CRWR

Wrist length  
Knitted wrist  
100% polyamide cryo gloves  
Superior thermal protection  
Extremely durable  
Size: 8-11



### CRMA

Mid arm length  
100% polyamide cryo gloves  
Superior thermal protection  
Extremely durable  
Size: 9-11



### CREB

Elbow length  
100% polyamide cryo gloves  
Superior thermal protection  
Extremely durable  
Size: 9-11



## CRSH

Shoulder length  
 100% Polyamide cryo gloves  
 Breathable stay-dry lining  
 Size: 9-11



## CRAI

Cryogenic apron  
 100% polyamide material  
 42 inches in length  
 Waterproof  
 Size: 24"x42"



## KNITTED GLOVES



**C0705DD**  
(Dotting on both sides)



**PVC dotting**  
for better grip

### C0705D

100% Cotton, 660gms/dzp  
Seamless knitted with 07 gauge machine  
PVC dots on palm  
Size: 7-11



**C0705**  
(100% cotton  
7-gauge seamless)



### C1032D

100% cotton  
420 gms/dzp  
Gauge 10 seamless knitting  
Wave pattern PVC dotting for excellent grip  
Size: 7-11



**C1003**  
460 gms/dzp



**C1032NB**



**BC1002**  
(Bleached cotton  
10-gauge seamless)



**N1302 Grey**  
(Optional grey colour)



**N1002/N1302**

### N1302D

100% nylon  
580 gms/dzp  
Available in gauge 13  
PVC dotted seamless gloves  
Size: 7-11





## C1001DNB

100% cotton knitted PVC dotted gloves  
 636 gms/dzp  
 Gauge 10  
 Seamless knitting construction  
 Navy blue lining with blue PVC dotting  
 Size: 7-11



C1001D



C1001DD NB



Dyed polyester yarn  
 with PVC dots.

## P1308D

100% dyed polyester knitted seamless with PVC dots  
 13 gauge machine  
 Level 4 tear-resistant  
 Size: 7 - 11



## NC1002D

100% white nylon knitted seamless gloves with cotton plating  
 PVC dots and elasticized waist  
 Knitted in 10 gauge machine  
 Level 4 tear resistant  
 Size: 7 - 11



## ARM SLEEVE



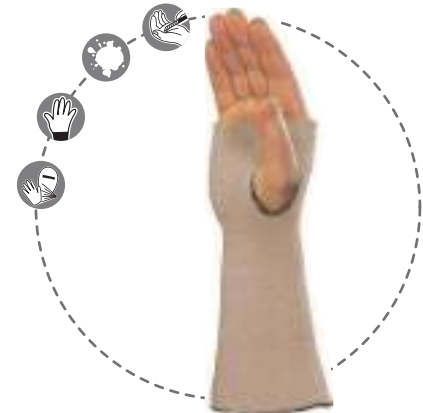
### KARMSLV

Arm sleeve  
100% para-aramid yarn knitted  
Seamless sleeve with thumb hole  
Heat resistant up to 200°C for 15 secs  
Mechanical hazard resistant arm sleeve  
Size: Universal



### CARMSLV

Arm sleeve  
100% cotton seamless  
Provides good comfort to the user  
Size: Universal



### LARMSLV

Leather arm sleeve  
Split leather  
Velcro adjustment with side lock arrangement  
Size: Universal

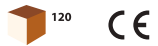


Velcro adjustment



## ARMOREX

UHMWPE and glass fiber based yarn knitted arm sleeve  
 13 gauge seamless knitting  
 High cut resistant gloves  
 Velcro adjustment option available for adequate fitting  
 Size: Universal



## GARMSLV

UHMWPE and fiberglass blended arm sleeve  
 13 gauge seamless knitting  
 High cut resistant elasticized closure at both ends  
 Size: Universal

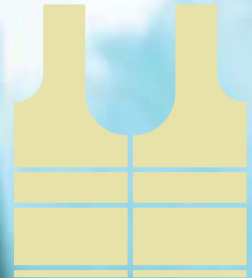


## PARMSLV

100% polyester knitted arm sleeve  
 Knitted in 13 gauge  
 Open elbow for flexibility  
 Size: Universal



**body  
protection**





Mallcom's exclusive work wear ranges from light-weight to heavy duty industrial work wear, profile clothing, winter protection, uniforms and corporate casual wear. These provide several degrees of protection and are utilized in hospitality, health-care and for general industrial purposes. Special fabric are also custom-made which protects the wearer in environments such as heat, fire and extreme cold temperatures.



## FLORIAD

65% polyester 35% cotton, 240 GSM

Coverall with zip closure

Elasticized waist tightening cuff

Closed by buttons 1 sleeve pocket on left side

One mobile pocket in contrast colour

Left chest pocket with gusset and flap

Front closure by zip accessories

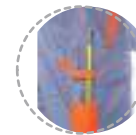
Holder at back underarm ventilation eyelet

Size: S to XL

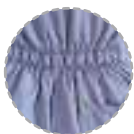
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Tested for harmful substances.  
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Zip closing



Accessories holder



Elasticized back



Mobile pocket

### Available Colours:



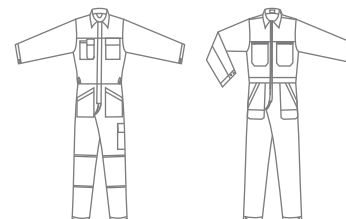
Navy Blue

Royal Blue

Orange

Grey

Beige

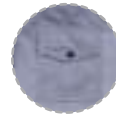


20  
EN 13688





Zipped pocket



Buttoned pocket



ABS sleeve button

## KOLDING

65% polyester 35% cotton, 240 GSM  
 Jacket with zip closure  
 Front opening by zip, shirt collar jacket  
 Two chest pockets  
 Sleeve tightening with ABS buttons  
 Size: S to XL

### Available Colours:



Navy Blue Royal Blue Orange Grey Beige



## NORD

65% polyester 35% cotton, 240 GSM  
 Trouser with zip closure  
 Inside elasticized back and sliding tab 5 belt loops  
 One pleat at the front on both the sides  
 One back pocket with rule pocket  
 Front closure by fly-with-zip  
 Size: S to XL



Pleat for comfort fit



One back pocket with rule pocket

### Available Colours:



Navy Blue Royal Blue Orange Grey Beige



## GOTLAND

65% polyester 35% cotton, 240 GSM  
Bi-coloured coverall  
Elasticized back waist tightening  
Underarm ventilation eyelets on sleeves  
Perforated elbows and knees  
6 pockets  
Size: S to XL



Buttoned  
pockets



Multiple  
pockets



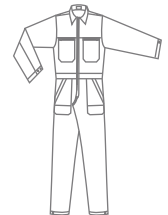
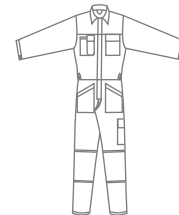
Elasticized  
back



Accessories  
holder



Side inner  
pocket



### Available Colours:



Beige / Black    Khaki / Black



CE  
EN 13688





## ESBERG

65% polyester 35% cotton, 240 GSM  
 Bi-coloured jacket  
 Elasticized waist tightening on sides  
 Preformed elbows  
 5 pockets  
 Size: S to XL



Adjustable cuff



Double stitch

### Available Colours:



Beige / Black



Khaki / Black



CE  
 EN 13688

## BERGEN

65% polyester 35% cotton, 240 GSM  
 Bi-coloured trouser  
 Elasticized waist tightening on sides  
 4 pockets  
 Size: S to XL

### Available Colours:



Beige / Black



Khaki / Black



Knee protector



Accessories holder



CE  
 EN 13688



## KASSEL

65% polyester 35% cotton, 210 GSM  
 Short coat with short sleeve with snap button  
 Two reinforced button pockets  
 One chest pockets  
 Size: S to XL

### Available Colours:



Navy Blue Royal Blue Grey



CE  
 EN 13688



## RHINE

65% polyester 35% cotton, 245 GSM  
 Trousers with no pleat and patch pocket  
 Trousers with elasticised waistband along with the provision of a belt  
 One side pocket on each side  
 CFC zipper  
 Size: S to XL

### Available Colours:



Navy Blue Royal Blue Grey



CE  
 EN 13688



## DRESDEN

65% polyester 35% cotton, 210 GSM  
 Long coat with long sleeve with snap button  
 Two reinforced bottom pockets  
 One chest pocket with pen holder  
 Size: S to XL

### Available Colours:



Navy Blue Royal Blue Grey



CE  
 EN 13688





## LUBECK

65% polyester 35% cotton 245 GSM  
 Trouser with two pleats and welt pockets and side one pocket  
 Trousers with elasticised waistband along with the provision of a belt  
 One side pocket on each side  
 CFC zipper  
 Size: S to XL

### Available Colours:



Navy Blue Royal Blue Grey



CE  
 EN 13688



## BREMEN

65% polyester 35% cotton, 210 GSM  
 Long coat with short sleeve with snap button  
 No pockets are available  
 Size: S to XL

### Available Colours:



Navy Blue Royal Blue Grey



CE  
 EN 13688



## TRIER

65% polyester 35% cotton, 210 GSM  
 Short coat with long sleeve with snap button  
 Two reinforced button pockets  
 One chest pocket with a penholder  
 Size: S to XL

### Available Colours:



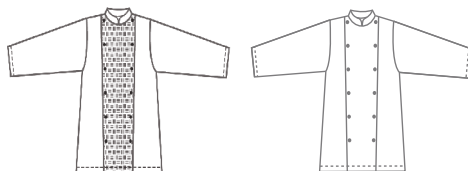
Navy Blue Royal Blue Grey



CE  
 EN 13688



Additional button set (white)



## CARDIFF J

100% cotton, 210 GSM  
 Chef jacket with pop buttons  
 Both way buttons  
 Round mandarin collar and french style cuff  
 An additional set of buttons in white colour  
 Size: S to XL

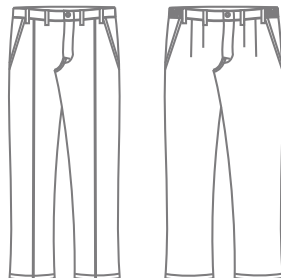
### Available Colours:



White



CE  
 EN 13688



## CARDIFF P

100% cotton, 210 GSM  
 Navy blue and white yarn died chef pant  
 Elasticized waist  
 Two front belt loops and three back belt loops  
 Two side pockets and one back pocket  
 Size: M to XL

### Available Colours:



Blue



CE  
 EN 13688



## DARWIN

65% polyester 35% quilted cotton  
 Wadded polyester taffeta lining  
 Multipockets body warmer  
 Cloth back elasticized tightening on both sides  
 Detachable sleeves  
 Front closed with spiral zipper concealed with flap  
 Fleece-lined collar for hood attachment  
 Ergonomically designed pockets with side slit 7 pockets  
 Size: S to XL

### Available Colours:



Blue



CE  
 EN 13688

## BUNBURY

65% polyester 35% quilted cotton  
 Wadded polyester taffeta lining  
 Bi-coloured body warmer polyfil quilted lining  
 Opening with front concealed zipper  
 Side elasticized waist  
 Contrast stitching over the jacket  
 Mobile and pen pockets at chest  
 Size: S to XL

### Available Colours:



By-colour



Khaki/White



CE  
 EN 13688



Spiral zipper  
 concealed with flap



Velcro adjustment  
 on sleeve



Side pockets  
 with slits



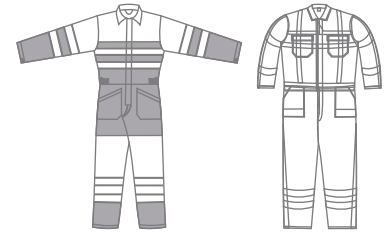
Utility pocket  
 (zip closed &  
 buttoned)



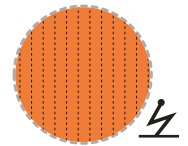
Elasticized waist &  
 buttoned side  
 pocket

## ORBE

20% polyester 80% cotton, 210 GSM  
Coverall in hi-vis antistatic fabric  
Reflective tapes on shoulders, sleeves and legs  
EN ISO 11612 compliant  
Multi-utility pockets  
Brass zippers and press buttons for closures  
Below pockets for extra storage space  
Size: S to XL



Reflective tape patch



Anti-static fabric (optional)

### Available Colours:



Orange



CE  
EN 11611 Class 1 A1  
EN 11612 Class A,B,C



## FIRAMID

95% nomex 5% para aramid, 200 GSM  
 Inherent fire retardant coverall  
 Front with concealed brass zipper  
 Multiple pockets  
 EN 20471 compliant reflective tape on shoulders,  
 sleeve and legs  
 Provision for knee guard insertion  
 Back waist tightened by elastic  
 Elasticized waist  
 Size: S to XL

### Available Colours:



CE  
 EN 11611 Class 1 A1  
 EN 11612 Class A,B,C

## MINSK

88% cotton 12% nylon, 240 GSM  
 Flame retardant summer coverall  
 Two flaps covered patch pockets on the chest and back  
 Two cross pockets on the hip  
 FR snap button FR zipper closure  
 FR reflective tape on arms and legs  
 Size: S to XL

### Available Colours:



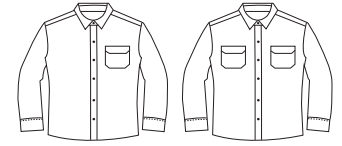
CE  
 EN 11611 Class 1 A1  
 EN 11612 Class A,B,C





## HELSINKI

100% cotton, 190 GSM  
Khaki colour flame retardent shirt  
Two front pockets covered with flaps; front closure by a metal snap button  
Sleeve adjusted with FR velcro  
Size: S to XL



### Available Colours:



Khaki

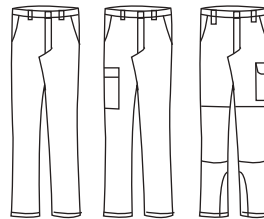


CE

EN 11611 Class 1 A1  
EN 11612 Class A,B,C

## COPENHAGEN

100% cotton, 190 GSM  
Khaki colour flame retardent trouser  
All pockets covered with flaps; front closure by metal snap button and FR zipper  
Sleeve adjusted with FR velcro  
Size: S to XL



### Available Colours:



Khaki



CE

EN 11611 Class 1 A1  
EN 11612 Class A,B,C







## TALLINN

Blue denim shirt  
 One chest pocket and two side pockets at front  
 Front button closure and flap cover  
 Size: S to XL



Available Colours:



Denim Blue



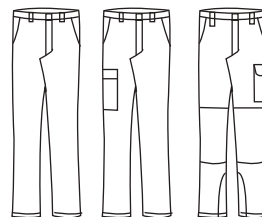
## MADRID

Blue denim trouser  
 Two front and two back pockets  
 Brass zipper closure with semi auto-lock slider  
 Size: S to XL

Available Colours:

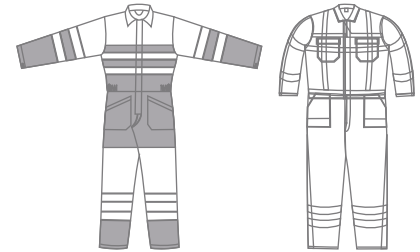


Denim Blue



## SOWETO

Sto-nor™ retro-reflective tape  
Bi-coloured hi visibility coverall  
Spiral zipper closed at the front  
50 mm wide double band reflective tape  
Waist elasticized at sides  
One zipped chest pocket  
Two patch pockets at waist  
Size: S to XL



50mm width  
reflective tape



Snap button  
closure

### Available Colours:



Hi vis green &  
Navy blue  
bi coloured



CE  
EN 20471  
+ A1





## VRYBURG

Sto-nor™ retro-reflective tape  
 Bi-coloured hi-visibility trouser  
 50mm wide double band reflective tape at leg bottom elasticized at sides  
 Two sides pocket  
 One patch pocket at back  
 Leg pocket with flap  
 Size: S to XL

### Available Colours:



Hi vis green &  
 Navy blue  
 bi coloured



CE  
 EN 20471  
 + A1

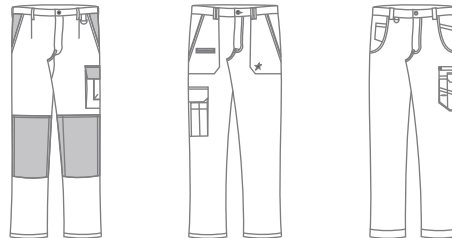
## PRETORIA

Sto-nor™ retro-reflective tape  
 Bi-coloured high visibility jacket  
 Spiral zipper closure at front  
 50 mm wide double band reflective tape waist elasticized at sides  
 One zipped chest pocket  
 Two patch pocket at waist  
 Size: S to XL

### Available Colours:



Hi vis green &  
 Navy blue  
 bi coloured



CE  
 EN 20471  
 + A1



## HARNESS GLO

75

High visibility harness  
50mm wide Avery Dennison micro-prismatic tape  
Velcro fastening  
Norm: class 2 silver colour-cross assembly  
Size: L



## COAT BRITE

25

75

High visibility vest  
50mm wide Sto-nor retro-reflective bands  
Velcro fastening  
Norm: class 2 silver-vertical/parallel assembly  
Size: L



CE  
EN 20471  
+ A1



## VEST GLO

25

75

High visibility vest  
50mm wide Avery Dennison micro-prismatic tape  
Zipper fastening  
Norm: class 2 silver-vertical/parallel assembly  
Size: L



CE  
EN 20471  
+ A1





Elasticized waist

## GRAZ-P

Elasticized pant  
 Two colourways: white & hospital blue  
 One side pocket on each side  
 Back waist belt with elastic  
 Front closure with zip  
 Size: M to XL

### Available Colours:



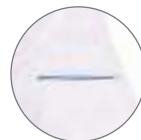
White



Blue



CE  
 EN 13688



Reinforced down pocket

## GRAZ-T

65% polyester 35% cotton, 160 GSM  
 White colour female tunic with blue piping  
 Two reinforced down pockets on each side  
 Central front closure with snap button  
 Size: S to XL

### Available Colours:



White



CE  
 EN 13688

## JD7AY

Lightweight 60 GSM disposable coverall for infectious disease control

Excellent barrier against dry particles and certain limited liquid chemical splash

Coverall made of breathable water-resistant SSMMS fabric

Elastic cuffs, waist and ankles for a better fit and freedom of movement

Size: Universal



Minimal curve design



Concealed zipper



Elastic cuff design



TYPE 4  
TYPE 5  
TYPE 6  
CATAGORY - III



CE  
EN 13688





## KC2GZ

Lightweight disposable shoe cover for health care applications  
 40 GSM laminated disposable shoe  
 8 mm elastic closure  
 Size: Universal



## LB6JZ

Lightweight 65 GSM disposable full sleeve apron for health care applications  
 Disposable apron to protect from biohazard risk and harmful particles  
 Strap fastener system  
 Size: Universal

### Available Colours:



Hospital Blue



TYPE 4  
 TYPE 5  
 TYPE 6  
 CATAGORY - III



## JB8AY

Seam-sealed lightweight 80 GSM disposable coverall for infectious disease control

Excellent barrier against dry particles and certain limited liquid chemical splash

Laminated breathable material

Elastic cuffs, waist and ankles for a better fit and freedom of movement

Size: S - XXXL



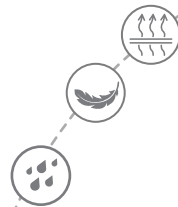
Minimal curve design



Cancelled zipper



Elastic cuff design



TYPE 4  
TYPE 5  
TYPE 6  
CATAGORY - III







## LA2EZ

Disposable gown to protect from biohazardous risks e.g. liquid and particles  
 Non-laminated 40 GSM, non-woven fabric  
 Strap fastener system closure  
 Size: Universal

### Available Colours:



Hospital Blue



## MP29G

Reuseable gown to protect from biohazardous risks e.g. liquid and particles  
 Coated 90 GSM, woven polyester fabric with PU coating  
 Strap fastener system closure  
 Size: Universal

### Available Colours:



Navy blue



## STRATUS

Pant and jacket set

Silver reflective piping on jacket and pants

Two utility pockets with lateral openings

Front closure by zipper and secured with flap and velcro

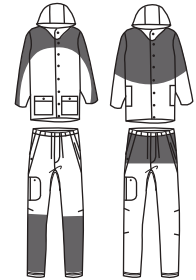
Detachable hood with drawstring adjuster

Elasticated pull-on pant

Leg bottom width adjustable with velcro

Waterproof seam sealing

Size: S - XXL



Broader front flap with velcro fasteners



Reflective trim and logo on jackets



Two front pockets



Velcro bottom & sleeve ends

Available Colours:



Grey





Adjustable hood with draw cords and stoppers



Reflective trim and logo on jackets

## STRATUS II

Pant and jacket set with yellow piping  
 Two utility pockets with lateral openings  
 Front closure by zipper and secured with flap and velcro  
 Detachable hood with drawstring adjuster  
 Elasticated pull-on pant  
 Leg bottom width adjustable with velcro  
 Waterproof seam sealing  
 Size: S to XXL

Available Colour:



Grey



## NIMBUS

Pant and jacket set  
 Front closure by zipper and secured with flap and velcro  
 Detachable hood with drawstring adjuster  
 Elasticated pull-on pant  
 Leg bottom width adjustable with velcro  
 Flaunt side pocket  
 Waterproof seam sealing  
 Size: XS-XXL

Available Colours:



Navy Blue





**feet  
protection**



Pioneering the manufacturing of Direct Injected Polyurethane Safety footwear, Mallcom produces sturdy shoes that can tackle challenges in construction, mining, metallurgical and other manufacturing industries. With an annual production capacity of more than a 3 million pairs, Mallcom is the leading manufacturer and distributor of certified safety shoes.



## FREDDIE K22

Aesthetically designed mid-ankle double density safety shoe

Red & black stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



TPU shock absorber heel patch



Closure with plastic eyelets



Outsole injected with double density PU



200 J impact resistant composite toe cap



Light weight



Stylish



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IS 15298





## FREDDIE J22

Aesthetically designed mid-ankle double density safety shoe

Green & black stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE H22

Aesthetically designed mid-ankle double density safety shoe

Grey & black stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE G21

Aesthetically designed mid-ankle double density safety shoe

Blue & black stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE K21

Aesthetically designed mid-ankle double density safety shoe

Red & black stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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IS  
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## FREDDIE J21

Aesthetically designed mid-ankle double density safety shoe

Green & black stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE H21

Aesthetically designed mid-ankle double density safety shoe

Black & Grey stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE J23

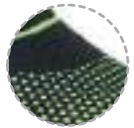
Aesthetically designed mid-ankle double density safety shoe

Green & black stylish knitted upper with reflective design

Double density PU sole with TPU shock absorber

Composite toe cap

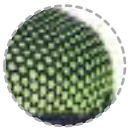
Size: 4-12



Fabric knitted upper



Prominently visible dual layered sole



Composite toe cap



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## FREDDIE H23

Aesthetically designed mid-ankle double density safety shoe

Black & Grey stylish knitted upper with reflective design

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE K23

Aesthetically designed mid-ankle double density safety shoe

Red & black stylish knitted upper with reflective design

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE K01

Mid-ankle double density safety shoe  
Orange with black blended knitted upper  
Double density PU sole  
Composite toe cap  
Size: 4-12



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## FREDDIE K02

Mid-ankle double density safety shoe  
Orange with black stylish knitted upper  
Double density PU sole  
Composite toe cap  
Size: 4-12



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## FREDDIE H01

Mid-ankle double density safety shoe  
 Grey with black blended knitted upper  
 Double density PU sole  
 Composite toe cap  
 Size: 4-12



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## FREDDIE J02

Low ankle double density safety shoe  
 Green & black stylish knitted upper  
 Double density PU sole  
 Composite toe cap  
 Size: 4-12



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## FREDDIE G03

Aesthetically designed mid-ankle double density safety shoe

Blue & black stylish knitted upper with reflective design

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE H03

Mid-ankle double density safety shoe

Grey with black stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE G23

Aesthetically designed mid-ankle double density safety shoe

Blue & black stylish knitted upper with reflective design

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## FREDDIE G22

Aesthetically designed mid-ankle double density safety shoe

Blue & black stylish knitted upper

Double density PU sole with TPU shock absorber

Composite toe cap

Size: 4-12



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## MARGAY

Nubuck & suede leather upper

Synthetic lining

Removable EVA footbed

Double density PU sole with shock absorbent heel

Size: 3-12



Soft cushioned pad



Ergonomically design loops



Double thread stitching



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## GUINA

Nubuck leather upper

Synthetic lining

Removable EVA footbed

Double density PU sole with shock absorbent heel

Size: 3-12



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## IBERIAN

Barton grain leather upper

Cambrelle lining

Removable EVA footbed

Double density PU sole with shock absorbent heel

Size: 3-12



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## ONTILLA

Nubuck leather upper

Synthetic lining

Removable EVA footbed

Double density PU sole with shock-absorbent heel

Size: 3-12



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## IRIOMOTE

Grain leather upper

Cambrelle lining

Removable EVA footbed

Double density PU sole with shock-absorbent heel

Size: 3-12



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## PAMPAS

Barton grain leather upper

Black synthetic cambrelle lining

Removable polyamide on EVA footbed

Injected double density PU outsole

New design with better slip-resistant properties

Size: 3-12



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## PALLAS

Barton grain leather upper

Split leather/synthetic lining

Removable polyamide on EVA footbed

Injected double density PU outsole

New design with better slip-resistant properties

Size: 3-12



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## MANX SUEDE

High ankle safety shoe with split suede leather upper  
200 J impact-resistant steel toe cap  
Black and grey dotted fabric lining  
Double density PU outsole  
Size: 3-12



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## SELKRIK REX

Low ankle safety with barton print grain leather upper  
200 J impact-resistant steel toe cap  
Black cordura lining  
Double density PU outsole  
Size: 3-12



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## CORNISH REX

Low ankle safety with nubuck black grain leather upper

200 J impact-resistant steel toe cap

Black cordura lining

Double density PU outsole

Size: 3-12



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## DEVON

Low ankle safety shoe with wood print black grain leather

200 J impact-resistant steel toe cap

Blue cordura lining

Double density PU outsole

Size: 3-12



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## MANX CLASSIC

High ankle safety shoe with black Meena print grain leather upper

200 J impact-resistant steel toe cap

Grey air mesh lining

Double density PU outsole

Size: 3-12



High ankle safety shoe



Double lined reinforced stitching



Black meena print grain leather upper



Double density PU outsole



EN 20345



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## MANX LITE

Low ankle safety shoe with meena print grain

black leather upper

200 J impact-resistant steel toe cap

Grey air mesh lining

Double density PU outsole

Size: 3-12



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## LOW YORK

Low ankle safety with grey suede grain leather upper

200 J impact-resistant steel toe cap

Black and grey dotted fabric lining

Double density PU outsole

Size: 3-12



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## TIGLON 3300

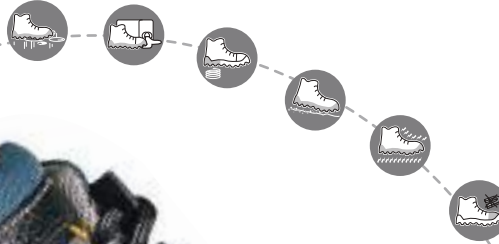
Barton grain leather with blue cordura  
PU foam and grey air mesh lining  
Removable polyamide on EVA footbed  
Injected double density PU outsole  
Size: 3-12



Blue cordura lining



Hi vis piping



Barton grain leather upper



Promonently visible dual density shoe



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## TIGLON 3200

Barton grain leather upper  
 Black synthetic spacer lining  
 Removeable polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



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 EN 20345



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## TIGLON 3400

Barton grain leather upper  
 Black synthetic cambrelle with foam lining  
 Removeable polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



Special eyelets



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## TIGLON 3500

Barton grain leather upper  
Black synthetic cambrelle with foam lining  
Removable polyamide on EVA footbed  
Injected double density PU outsole  
Size: 3-12



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## TIGLON 3600

Barton grain leather upper  
Black synthetic cambrelle with foam lining  
Removable polyamide on EVA footbed  
Injected double density PU outsole  
Size: 3-12



Ankle protection



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## TIGLON 3700

Corrected grain leather upper  
 Black synthetic cambrelle with foam lining  
 Removable polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



Padded  
collar



CE  
EN 20345

IS 15298



## LIGER L

Barton grain meena print leather upper  
 Grey split leather lining  
 Removable polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



CE  
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## LIGER H

Barton grain meena print leather upper  
Grey split leather lining  
Removeable polyamide on EVA footbed  
Injected double density PU outsole  
Size: 3-12



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## LEPERM

Low ankle safety shoe with split suede leather upper  
Velcro fastening strap closure system  
200 J impact resistant steel toe cap  
Air mesh lining inside  
Double density PU outsole  
Size: 3-12



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## PEDROFELES

Low ankle safety shoe with black nubuck leather upper  
 Fastening is with aesthetically designed yellow lace  
 200 J impact resistant steel toe cap  
 Yellow spacer lining  
 Double density PU outsole  
 Size: 3-12



CE  
 EN 20345



## KORAT

Low ankle safety clogs with barton print black leather upper  
 200 J impact resistant steel toe cap  
 Red spacer lining  
 Double density PU outsole  
 Size: 3-12



CE  
 EN 20345





## OCELOT

Nubuk & suede leather upper

Synthetic lining

Removable EVA footbed

Double density PU sole with shock absorbent heel

Size: 3-12



Soft  
cushioned pad



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IS  
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## CARACAL

Premium quality barton grain leather upper

Synthetic lining

Removable EVA footbed

Double density PU sole with shock absorbent heel

Size: 3-12



Extended toe  
guard (optional)



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IS  
IS 15298





## CYMRIC K03 S1

White washable microfiber upper  
 Double density PU outsole  
 Steel toecap  
 Slip-on shoe design  
 Size: 3-12



CE  
 EN 20347

IS 15298



## CYMRIC J03 S1

Black washable microfiber upper  
 Double density PU outsole  
 Steel toecap  
 Slip-on shoe design  
 Size: 3-12



CE  
 EN 20347

IS 15298

## CYMRIC K01 OB

White washable microfiber upper  
Sandal design  
Double density PU outsole  
Plastic toecap  
Velcro fastening system  
Size: 3-12



Light Weight



Breathable



Anti-allergic



Wipe Friendly



Retains Shape



Microfiber



EN 20347



IS 15298







## CYMRIC J01 OB

Black washable microfiber upper  
 Double density PU outsole  
 Plastic toecap  
 Velcro fastening system  
 Size: 3-12



CE  
 EN 20347



Cymric  
 J02 OB

## CYMRIC K02 OB

White washable microfiber upper  
 Clog design  
 Double density PU outsole  
 Plastic toecap  
 Velcro fastening system  
 Size: 3-12



CE  
 EN 20347





## RUFUS J01 S2

Brown microfiber upper  
Low ankle double density safety shoe  
Colour of the midsole is black and outsole is grey  
200 J impact resistant steel toe cap  
Size: 3-12



CE  
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IS 15298



## RUFUS K01

Black microfiber upper with green piping  
Low ankle double density safety shoe  
Colour of the midsole is black and outsole is grey  
200 J impact resistant steel toe cap  
Size: 3-12



CE  
EN 20345

IS 15298





## RUFUS L01 S2

Black microfiber upper  
 Low ankle double density safety shoe  
 Colour of the midsole is black and outsole is grey  
 200 J impact-resistant steel toe cap  
 Size: 3-12



CE  
 EN 20345

IS  
 IS 15298



## RUFUS M01

Black microfibre upper with suede leather  
 & textile material  
 Low ankle double density safety shoe  
 Colour of the midsole is black and outsole is grey  
 200 J impact resistant steel toe cap  
 Size: 3-12



CE  
 EN 20345

IS  
 IS 15298

## VIVVERA

Barton grain leather upper  
Black synthetic cambrelle lining  
Removable polyamide on EVA footbed  
Injected double density PU outsole  
Size: 3-12



Premium shoe lace



Hi-vis trim



Composite toe cap (optional)



Padded collar



Ankle protection



Slip resistant sole



Enlarge toe guard



EN 20345



IS 15298





## CIVET

Barton grain leather upper  
 Black synthetic cambrelle lining  
 Removable polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



Hi-vis piping



Cushioned padded collar



Enlarge toe guard



CE  
 EN 20345



IS 15298



## PYTHON

Barton grain leather upper with para-aramid stitching  
 Split leather/synthetic lining  
 Polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



CE  
 EN 20345



IS 15298



## HATRICK

Corrected grain leather upper  
 Split leather synthetic lining  
 Polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



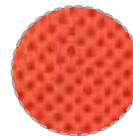
CE  
 EN 20345

IS 15298



## RAGINI

Suede split leather and nylon orange mesh  
 (breathable) upper  
 Absorbent polyamide lining  
 Removeable polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



Breathable  
 nylon mesh



Air  
 ventilator



Padded collar  
 with holding strap



CE  
 EN 20345

IS 15298





## LEO B

Low ankle safety shoe with suede split leather upper

Absorbent polyamide lining

Removable polyamide on EVA footbed

200 J impact resistant steel toe cap

Double density PU outsole

Size: 3-12



CE  
EN 20345



IS 15298



## MENNEC

Suede split leather upper

Absorbent polyamide lining

Removable polyamide on EVA footbed

Injected double density PU outsole

Size: 3-12



CE  
EN 20345



IS 15298



## CHEETAH

Barton grain leather perforated upper  
Split leather, mesh type lining  
Polyamide on EVA footbed  
Injected double density PU outsole  
Size: 3-12



Velcro opening



Ventilated upper



CE  
EN 20345



IS 15298



## MONT BLANC

Barton grain leather with synthetic Hi-Vis tape upper  
Split leather lining  
Removable polyamide on EVA footbed  
Injected double density PU outsole  
Size: 3-12



Hi-vis tape



Padded collar with Hi-vis strap



CE  
EN 20345



IS 15298







## COUGAR

Barton grain leather upper  
 Black cambrelle lining  
 Removable polyurethane footbed  
 Injected double density PU outsole  
 Size: 3-12



CG Variet



CE  
 EN 20345

IS 15298



## JAGUAR

Corrected grain leather upper  
 Synthetic air mesh laminated foam lining  
 Polyamide on EVA footbed  
 Injected double density PU outsole  
 Size: 3-12



Padded  
 collar



CE  
 EN 20345

IS 15298



## LOREX

Barton grain leather upper  
Split leather/synthetic lining  
Removable polyamide on EVA footbed  
Injected single density PU outsole  
New design mould with better slip-resistant properties  
Size: 3-12



Lorex Neo



CE  
EN 20345

IS 15298



## LEOPARD

Barton grain leather upper  
Black synthetic cambrelle lining  
Removable polyamide on EVA footbed  
Injected single density PU outsole  
Size: 3-12



Plastic eyelets  
for electrical shoes



CE  
EN 20345

IS 15298





## HIGHLANDER

Barton grain leather upper with dark TAN colour

Black synthetic cambrelle lining

Removable polyamide on EVA footbed

Injected single density PU outsole

Size: 3-12



CE  
EN 20345

IS  
IS 15298



## NEOFELIS

Barton grain leather upper with dark TAN colour

Black synthetic cambrelle lining

Removeable polyamide on EVA footbed

Injected single density PU outsole

Size: 3-12



CE  
EN 20345

IS  
IS 15298

## DALFON

Black PVC gumboots

100 J impact resistant steel toe cap

Vamp & quarter lining is with nylon fabric

Height of this shoe is 350mm

Double density PVC outsole

Size: 3-12



Highly comfortable



Skin friendliness



Resistant to mild acid/alkaline



Excellent fitting



Non slippery sole



EN 20346



IS 12254





## BIRMAN

Black barton grain leather upper

High ankle

Cambrelle collar lining

Polyurethane direct injected single density sole

200 J impact resistant steel toe cap

Corrosion and penetration resistant steel plate insert

Size: 4-12



CE  
EN 20345

IS 15298



## MALKIN

Black barton grain leather upper

Low ankle

Cambrelle collar lining

Polyurethane direct injected single density sole

200 J impact resistant steel toe cap

Corrosion and penetration resistant steel plate insert

Size: 4-12



CE  
EN 20345

IS 15298



## STEP IN

Made of sturdy quality material  
Compact & easily carriable



## BRUSH

Polished hardwood handle  
Horsehair bristles for efficient buffing



## CREAM SHINE

Shoe polish 40 grams  
Quality polishing brush



## SPEED LACE

Safety shoe length 100 cm  
Available in different colour combinations





## FOOT ON

25 cm flat footbed

Available in different materials



## NINJA

25 cm flat footbed

Made of synthetic PU foam material



## LIGHT STEPPER

25 cm flat footbed

Made of synthetic PU foam material

## HEAD PROTECTION

### SAFETY HELMET

Few injuries are more fatal or more damaging than head injuries. Concussions, brain injuries, permanent or temporary brain damage are just a few of the possible outcomes of a blow to the head. Additionally, workers who are exposed to potential electric shock need to protect against that as well. Basic Personal Protective Equipment required for any worker is the safety helmet.

### ASSESSMENT FACTORS

- Is there a possibility that something might fall from overhead?
- Are there any exposed electrical components (wiring, conductors, etc.) that might come into contact with your head?
- Are there fixed objects low enough, that one might bump into accidentally?

If you have answered yes to any one of these questions, then you should be wearing a safety helmet.

### GLOSSARY

**Bump Cap** - Head protection gear designed for protection against low clearance objects only. A bump cap is not to be used in lieu of a hard hat where a hard hat is required.

**Cap style** - Refers to a safety helmet that has a brim on the front of the helmet only.

**Four point suspension** - Refers to the number of clips that connect the suspension to the inside of the safety helmet. Safety helmets usually come in a four-point or a six-point suspension.

**Full Brim** - Refers to a safety helmet that has a brim that wraps around the entire safety helmet, as compared to the cap style safety helmet where the brim is only in the front of the safety helmet.

**Pin lock** - Refers to the safety helmet suspension that adjusts to the head size by means of a set of holes on the one side of the strap and little pins that snap into the holes on the other side.

**Ratchet** - Refers to the safety helmet suspension that adjusts to the head size using a ratchet adjustment knob. Simple, easy and quick, this allows the safety helmet to be fit tight and comfortably.

**Six point suspension** - See "Four-point suspension."

**Slots** - Refers to the slot in the side of the safety helmet that is designed to accept accessories such as ear muffs, face shields or other safety helmet accessories.

### EN 397:1995 Protective helmets for industry

(BSEN 397:1995) details physical and performance requirements, methods of test and marking requirements for general-use of industrial safety helmets. Performance requirements for the helmet shell are provided. Mandatory requirements such as shock absorption, and label are addressed. Physical requirements for industrial safety helmets including materials and construction, external vertical distance. Internal vertical distance, internal vertical clearance, horizontal distance, and wearing height are included.

### ANSI/ISEA Z89.1-2014 (R2019)

Revision of ANSI/ISEA Z89.1-2009. This standard establishes minimum performance and labelling requirements for protective helmets used in industrial and occupational settings under normal temperature conditions and optionally at high and low temperatures and when worn in the reversed position. It also includes requirements for high-visibility helmets and specifies test methods for evaluating all requirements.

Helmets conforming to the requirements of this standard are designated both by Type (based on location of impact force) and Class (based on electrical insulation) as well as any optional feature.

#### 4.1 Impact Types

##### 4.1.1 Type I

Type I helmets are intended to reduce the force of impact resulting from a blow only to the top of the head.

##### 4.1.2 Type II

Type II helmets are intended to reduce the force of impact resulting from a blow to the top or sides of the head.

#### 4.2 Electrical Classes

##### 4.2.1 Class G (General)

Class G helmets are intended to reduce the danger of contact with low voltage conductors. Test samples shall be proof-tested at 2200 volts (phase to ground). This voltage is not intended as an indication of the voltage at which the helmet protects the wearer.

##### 4.2.2 Class E (Electrical)

Class E helmets are intended to reduce the danger of contact with higher voltage conductors. Test samples are proof-tested at 20,000 volts (phase to ground). This voltage is not intended as an indication of the voltage at which the helmet protects the wearer.

##### 4.2.3 Class C (Conductive)

Class C helmets are not intended to provide protection against contact with electrical hazards.

### EN 812:2012 Bump caps for industry

These are essentially intended for inside use. A bump cap is not intended to protect against the effects of falling objects and must not under any circumstance replace a protective industrial helmet.





## EYE PROTECTION

### STANDARDS FOLLOWED

#### EN 166:2002 Personal eye-protection against various dangers

The EN 166 standard is applicable to all types of personal eye protectors used against various dangers liable to damage the eye or to alter the vision, with the exception of radiation of nuclear origin, X rays, laser beams, infrared rays given out by sources at low temperatures.

The specifications of this standard are not applicable to eye protectors for which separate and complete standards exist, such as anti-laser eye protector, all purpose solar spectacles, etc. The eye protectors fitted with corrective lenses are not excluded from the application field.

#### EN169: Ocular filters for welding and related techniques

The EN169 standard gives the grade numbers and the transmission specifications of the filters intended to ensure the protection of users carrying out welding, arc gauging and plasma arc cutting works.

The other requirements applicable for this type of filter are featured in the EN166 standard. The specifications for the welding filters with variable protection grade or double protection grade make the subject of the EN379 standard.

#### EN175 standard: Equipment for eye and face protection during welding and allied processes

The EN175 standard specifies the safety requirements and test methods relating to personal protective equipment used to protect the user's eyes and face against harmful optical radiation and against other specific risks due to usual welding processes, cutting or other related techniques.

The present standard specifies the protection, including ergonomic aspects, against different types of risks or dangers: radiation, flammability, mechanical risks, electrical risks. The equipment is designed to adjust protective filters with or without guard lenses or eyepiece of reinforcement, according to the recommendations of the protective equipment manufacturer for welding operations, in conformity with EN166 and EN169 standards or with EN379 standard.

### APPLICATION CHART - TYPE OF THE GLASS

#### Standard symbol explanation

EN166	1	Optical class.
EN166	F	Low energy impact.
EN166	B	Medium energy impact.
EN166	9	Non adherence of molten metal and resistance to penetration of hot solids.
EN166	3	Protection against liquid droplets/splashes.
EN166	8	Protection against short circuit electric arc.
EN169	3	Filters for personal eyes-protection equipment used in welding and similar operations, scale number 3.
EN169	5	Welding and braze welding of heavy metals. Welding with emissive fluxes (notably light alloys) oxygen cutting.
EN169	8	Filters for personal eyes-protection equipment used in welding and similar operations. scalenumber 8.
EN170	3-1	For use with sources which emit predominantly ultra violet radiation at wave lengths shorter than 313 nm and when glare is not an important factor. This covers the UVC and most of the UVB bands.
EN171	4-5	Protection against infra red radiations. Typical application in terms of mean temperature sources up to 1390°C.

## EAR PROTECTION

Determining the need to provide hearing protection for employees can be challenging.

### ASSESSMENT FACTORS

- The loudness of the noise as measured in decibels (dB).
- The duration of each employee's exposure to the noise.
- Whether employees move between work areas with different noise levels.
- Whether noise is generated from one or multiple sources.

### GLOSSARY

#### Decibel - dB

A unit used to measure the intensity of a sound or the power level of an electrical signal by comparing it with a given level on a logarithmic scale. In general use, it is a degree of loudness.

### SNR - Single number rating

Is a rating system set up by the European Union (EU). Tests are conducted by independent testing laboratories with no direct participation by manufacturers. The independent testing laboratories meet all of the regulatory requirements as set by the EU. The test results serve as a guideline to indicate the amount of potential protection, a hearing protection device will give in a noisy environment. This was established by the European Union and is aligned with the EN standard in Europe.

### NRR - Noise reduction rating

Is a rating system set up by the Environmental Protection Agency (EPA) as a guideline that indicates the amount of potential protection a hearing protection device will give in a noisy environment. It is aligned with American ANSI standard. All tests are performed in a controlled environment. Consequently, posted NRR ratings are a qualified example of how the individual products compare with other similar hearing protection products in an uncontrolled noise environment. Test results do not evaluate the product reusability, comfort, adaptability or quality.

### STANDARDS FOLLOWED

#### EN352-1 Muffs and headband

This section of the standard deals with head fasteners and establishes requirements in terms of manufacture, design and performance, test methods, instructions relating to marking and information intended for users.

#### EN352-2 Plugs and bands

This part of the standard also deals with individually moulded ear plugs and devices connected by band, although, it does not deal with the performances of electronic devices likely to be inserted in the ear plugs or on the case of amplitude sensitive plugs.

#### EN352-3 Muffs and helmet mounted

The present section of the standard stipulates requirements in terms of manufacture, design and performance, test methods, instructions relating to head fastener marking and information intended for head fastener users, when the latter are fixed on protective industrial helmets.

## FACE PROTECTION

Respiratory masks give you a protection against respiratory attacks: dust - particulates, aerosols, fume or gas.

### ASSESSMENT FACTORS

To choose the correct respiratory apparatus (half-mask or complete mask composed of one or two cartridges).

- Identify the type of risk: dust, fume, gas, vapours etc.
- Identify the toxic product
- Locate and record its toxicity (concentration)
- Compare with the AVE/LVE

### DUST AND AEROSOL FILTERS

Type	Code	Protection
P1	White	Protects from coarse solid particles without specific toxicity (calcium carbonate).
P2	Yellow	Protects from solid and/or liquid aerosols warned to be hazardous or irritating (silica, sodium carbonate)
P3	Red	Protects from toxic solid and/or liquid aerosols (beryllium-radioactive particles).

### GLOSSARY

**Dusts:** Solid particles suspended in the air.

**Fumes:** Small particles suspended in the air.

**Aerosols and aqueous fogs:** Small droplets produced during pulverization.

**AVE (Average value of exposure):** It corresponds to the concentration measured over one reference period (one day of 8H for example). If the AVE exceeds the concentration to which any individual can be exposed without running any risk for his health, a protection is necessary. The AVE is indicated on the card of toxicity of the handled products.

**LVE (Limit value exposure):** It is the measured concentration over a maximum time of 15 minutes that is advisable not to exceed.

### STANDARDS FOLLOWED

The main standards concerning respiratory apparatus:

#### EN 136: Overall masks

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



### EN 140: Half masks and quarter masks

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

### EN 143: Filters against particles

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

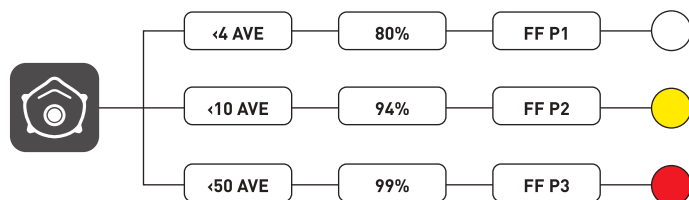
### EN 149: Filtering half masks

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

### CLASSIFICATION OF THE FILTERS

Class	FFP1	FFP2	FFP3
Minimum efficiency %	78%	92%	98%
Total inward leakage	22%	8%	2%
Filter efficiency of the filtering medium	80%	94%	99%
Nominal protection factor	4.5	12.5	50
Mean exposure value (MEV)	4X	10X	20X

### FILTER EFFICIENCY



### MEDICAL FACE MASKS

#### EN 14683:2020

This European Standard specifies construction, design, performance requirements and test methods for medical face masks intended to limit the transmission of infective agents from staff to patients during surgical procedures and other medical settings with similar requirements. A medical face mask with an appropriate microbial barrier can also be effective in reducing the emission of infective agents from the nose and mouth of an asymptomatic carrier or a patient with clinical symptoms.

### Materials and construction

The medical face mask is a medical device, composed of a filter layer that is placed, bonded, or moulded between layers of fabric. The medical face mask shall not disintegrate, split, or tear during intended use.

### Design

The medical face mask shall have a means by which it can be fitted closely over the nose, mouth, and chin of the wearer and which ensures that the mask fits closely at the sides. Medical face masks may have different shapes and constructions as well as additional features such as a face shield (to protect the wearer against splashes and droplets) with or without anti-fog function, or a nose bridge (to enhance fit by conforming to the nose contours).

### Bacterial filtration efficiency (BFE)

The Bacterial Filtration Efficiency test determines the filtration efficiency by comparing the bacterial control counts to test article effluent counts. The test is conducted using *Staphylococcus aureus* as the challenge organism. After the filtration media is preconditioned, a liquid suspension of *S. aureus* is aerosolized and delivered to the filtration media at a constant flow rate of 28.3 litres per minute (LPM) or 1 cubic foot per minute (CFM)

### Breathability

Air permeability of the mask, measured by determining the difference of pressure across the mask under specific conditions of air flow, temperature, and humidity. The differential pressure is an indicator of the "breathability" of the mask.

### Splash resistance

Splash resistance is the ability of a medical face mask to withstand penetration of synthetic blood projected at a given pressure.

### Microbial cleanliness (Bioburden)

Cleanliness means freedom from population of viable micro-organisms on a product and/or a package, and freedom from particles that are contaminating a material and can be released but are not generated by mechanical impact

### Biocompatibility











The manufacturer shall complete the evaluation of the medical face mask according to EN ISO 10993-1 and determine the applicable toxicology testing regime.

## PERFORMANCE REQUIREMENTS FOR MEDICAL FACE MASKS

Test	Type I	Type II	Type III
Bacterial filtration efficiency (BFE): The ability of the face mask to filter our bacteria so that they are not released into the user's surroundings (BFE), (%).	≥ 95	≥ 98	≥ 98
Differential pressure: The lower this value, the easier it is for the user to breath normally (Pa/cm2).	<29.4	<29.4	<49
Splash resistance pressure: The ability of the face mask to withstand the penetration of liquid splashes (kPa).	NA	NA	<16.0
Microbial cleanliness: Microbial cleanliness documents cleanliness in the manufacturing process (cfu/g).	≤ 30	≤ 30	≤ 30

Type I medical face masks should only be used for patients and other persons to reduce the risk of spread of infections particularly in epidemic or pandemic situations. Type I masks are not intended for use by healthcare professionals in an operating room or in other medical settings with similar requirements.

### KEY TO SYMBOLS

 Snuggly fitting	 Anti-scratch	 Anti-fog	 Bump
 Dust	 Indoor	 Indoor/ outdoor	 Shock adsorbent
 Light & comfortable	 Projectiles	 Temperature	 Weight

## HAND PROTECTION

Because of their tremendous versatility, hands are exposed and susceptible to many types of injuries. The common hazards against which hand protection needs to be routinely considered are mechanical hazards like :

- a. Cutting
- b. Punctures
- c. Crushing
- d. Pinches
- e. Rotating equipment
- f. Vibrating equipment

### A. Environmental Hazards

- a. Extreme temperatues
- b. Electrical hazards

### B. Contact with skin irritant substances

#### ASSESSMENT FACTORS

The need for hand protection should be assessed by conducting an assessment of potential workplace hazards. There are four interconnected factors to consider when selecting the best form of hand protection for the intended work.

- a) The type of hazard (physical, mechanical, chemical, biological).
- b) The nature of the task (regular process or incidental/accidental).
- c) User comfort (fit, dexterity) and
- d) The workplace conditions (surface/ambient temperatures, wet/dry).

### KNITTED GLOVES

The needle is the main instrument on a knitting machine.

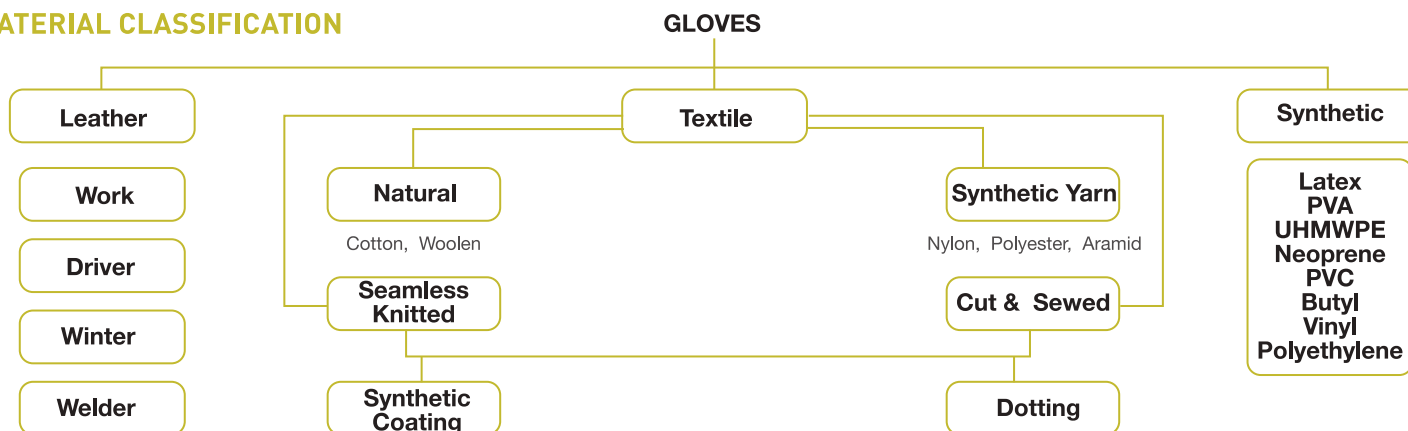
The gauge represents the number of needles in 1 English inch (= 2.54 cms).

### KEY TO SYMBOLS

 Abrasion	 Chemical	 Cuff	 Cut resistance	 Cuff	 Cutting
 Chemical resistant	 Cut	 Dirty environment	 Dexterity	 Dots	 Dirty
 Dry environment	 Dexterity	 EN 388 cut level 5	 Flame	 Grip	 Heat
 Impact	 Knitted wrist	 Low visibility	 Micro organism	 Oily environment	 Oil resistance
 Puncture	 Rough	 Spark	 Tear	 Ventilated back	 Welding



## MATERIAL CLASSIFICATION



The higher the gauge the finer the glove (better dexterity and sensibility). Gloves are available in 7,10,13, 15 and 17 gauges.

**SYNTHETIC HIGH PERFORMANCE TEXTILE FIBRES USED IN KNITTED GLOVES**

Kevlar®/Twaron®: Outstanding protection against cuts and heat. Kevlar is a para-aramid fibre from DuPont which combines both lightness and extremely high tenacity. For a given weight, Kevlar is five times more resistant than steel. Twaron® is the para-aramid fibre from AKZO Nobel. Kevlar®/Twaron® fibre gloves are 3 times more resistant to cuts than cotton gloves and 5 times more resistant than leather gloves.

**CHARACTERISTICS**

- Burns between 425°C and 475°C
- Does not melt.
- Self extinguishing (cannot burn without outside addition of fuel)
- Good chemical stability.
- Soft to touch, comfortable, washable, good dexterity.

**STANDARDS FOLLOWED**

**EN 420:** This standard defines the general requirements for glove design and construction, innocuousness, comfort and efficiency, marking and information applicable to all protective gloves.

**REQUIREMENTS**
**Glove construction and design**

- Gloves have to offer the greatest possible degree of protection in the foreseeable conditions of end use

- When seams are included, the strength of these seams should not reduce the overall performance of the glove.

**Innocuousness**

- The gloves themselves shouldn't cause any harm to the user
- pH of the glove should be between 3.5 and 9.5
- Chromium (VI) content should be below detection (less than 3 ppm)

**Volume Density**


This indicates Volume Resistivity, where a glove can reduce the risk of electrostatic discharge. (Pass or fail test). These pictograms only appear when the gloves have passed the relevant test.

**SCOPE:** This standard applies to all kinds of protective gloves in respect of physical and mechanical aggressions caused by abrasion, blade cut, puncture and tearing.

- 1 **Resistance to abrasion:** Based on the number of cycles required to abrade through the sample glove (abrasion by sandpaper under a stipulated pressure). The protection factor is then indicated on a scale from 1 to 4 depending on how many revolutions are required to make a hole in the material. The higher the number, the better the glove.
- 2 **Blade cut resistance:** Based on the number of cycles required to cut through the sample at a constant speed. The protection factor is then indicated on a scale from 1 to 5.
- 3 **Tear resistances:** Based on the amount of force required to tear the sample. The protection factor is then indicated on a scale from 1 to 4.

4 **Puncture resistances:** Based on the amount of force required to pierce the sample with a standard sized point. The protection factor is then indicated on a scale from 1 to 4

5 **TDM blade cut resistance:** EN ISO 13997 levels

6 levels (letters instead of figures) have been defined as follows and will become the fifth level underneath the hammer pictogram

- When dulling : – EN ISO levels need to be reported mandatory if cut resistance is claimed – Blade cut level could be applied voluntary
- If no dulling : – EN ISO level could be applied voluntary – Blade cut level would be mandatory if cut resistance is claimed

#### 6. Additional protection – impact resistance:

For gloves that are designed, constructed and claimed to provide specific impact attenuation; the materials shall not crack when a 2.5 kg load with an impact energy of 5 Joule drops on the tested material - peak transmitted shall also be < 7kN. Testing methodology as per EN 13594

- Pass or Fail test
- If test passes, the indication “P” would apply next to the other 5 defined levels under the hammer pictogram

EN 388



**A B C D**  
(old marking)  
**A B C D E F**  
(new marking)

Performance Level Rating	1	2	3	4	5
<b>A</b> Abrasion resistance (cycles)	100	500	2000	8000	-
<b>B</b> Blade cut resistance (number)	1.5	2.5	5.0	10.0	20.0
<b>C</b> Tear resistance (newton)	10	25	50	75	-
<b>D</b> Puncture resistance (newton)	20	60	100	150	-

Performance Level	A	B	C	D	E	F
E EN ISO cut resistance (Newton)	2	5	10	15	22	30
F EN impact protection	Pass or Fail					

Level X can also be applied for the above, which means ‘not tested’ or ‘not applicable’

**EN 407** This standard specifies the test methods and the general requirements, the classification and the marking of gloves for protection against heat and/or fire (flames, contact heat, convective heat, radiant heat, small metal splashes or large projections of molten metal).

EN 407



a b c d e f

- a Resistance to flammability 0-4
- b Contact heat resistance 0-4
- c Convective heat resistance 0-4
- d Radiant heat resistance 0-4
- e Resistance to small splashes of molten metal 0-4
- f Resistance to large splashes of molten metal 0-4

	Test	Results measured in:	Results			
			1	2	3	4
1	After-flame time	Seconds	≤20	≤10	≤3	≤2
1	After-glow time	Seconds	No requirement	≤120	≤25	≤5
2	Contact heat	Temp in °C after 15 Seconds	100°	250°	350°	500°
3	Convective heat	Seconds	≤4	≤7	≤10	≤18
4	Radiant heat	Seconds	≤5	≤30	≤90	≤150
5	Drops of molten metal	Number of drops	≤5	≤15	≤25	≤35
6	Molten metal	Gram	30	60	120	200

#### Protective gloves against chemicals and micro-organisms.

##### BEFORE



##### STANDARDS EN 374-1:2003

##### Chemical protection: basic protection

Gloves resistant to penetration (EN 374-2:2003)



**Specific protection:** Gloves resistant to penetration (EN 374-2:2003) Permeation tests (EN 373-3: 2003), breakthrough time a 30 min for at least three out of a list of twelve chemicals

A K L



##### Protection against micro-organisms

**(bacteria and fungi)** Gloves resistant to penetration (EN 374-2:2003) AQL: level 2 minimum (AQL:acceptable quality level)

##### NOW




##### STANDARDS EN 374-1:2016

##### Protective gloves against chemicals

It is based on three test methods:

- a) Penetration test in accordance with standard EN 374-2:2014
- b) Permeation test in accordance with standard EN 16523-1:2015 which replaces standard EN 374-3
- c) Degradation test in accordance with standard EN 374-4:2013



ONE PICTOGRAM AND THREE TYPES OF GLOVE		
Type Of Gloves	Requirement	Marking
Type A	Penetration resistance (EN 374-2) Breakthrough time > 30 min for at least 6 chemical in the new list (EN 16523-1)	 EN ISO 374-1/Type A A J K L P R
Type B	Penetration resistance (EN 374-2) Breakthrough time > 30 min for at least 3 chemical in the new list (EN 16523-1)	 EN ISO 374-1/Type B J K L
Type C	Penetration resistance (EN 374-2) Breakthrough time > 10 min for at least 1 chemical in the new list (EN 16523-1)	 EN ISO 374-1/Type C

### Degradation test

(deterioration of the physical properties of the glove in contact with the chemical) in accordance with EN 374-4:2013 To be able to claim protection against a chemical of the list, permeation and form now degradation tests must be carried out. The results of the degradation test must appear in the information leaflet.

### 6 NEW CHEMICALS HAVE BEEN ADDED TO THE LIST OF HAZARDOUS COMPOUNDS

LIST OF HAZARDOUS COMPOUNDS			
CODE	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	Carbon 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 compound
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%	7697-37-2	Inorganic mineral acid, oxidising
N	acetic acid 99%	64-19-7	Organic acid
O	ammonia 25%	1336-21-6	Organic base
P	hydrogen peroxide 30%	7722-84-1	Peroxide
Q	hydrofluoric acid 40%	7664-39-3	Inorganic mineral acid
R	formaldehyde 37%	50-00-0	Aldehyda

**STANDARDS EN 374-5:2016**

**Protective gloves against micro-organisms**

Gloves must pass the penetration resistance test in accordance with standard EN 374-2:2014. The possibility of claiming protection against viruses was added, if the glove passes ISO 16604:2004 (method B) test.

**EN 374-5**



**EN ISO 374-5**

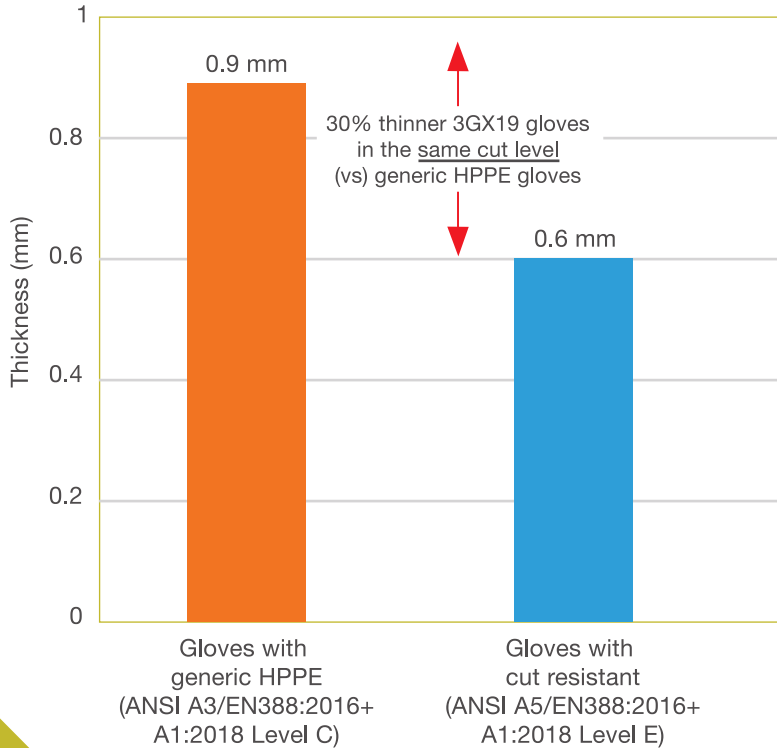
For gloves offering protection against bacteria and fungi.

**LEVEL 2**

**Dyneema® CUT RESISTANT HAND PROTECTION**

Dyneema® diamond technology fiber grade for all cut resistance levels.

**Thickness comparison between 13 gauge generic PE gloves and gloves with cut resistant hand protection fiber with similar range of cut resistance level B (ANSI A2)**



**EN 374-5**



**VIRUS**

**EN ISO 374-5**

For gloves protecting against bacteria, fungi and viruses.

**EN 511**



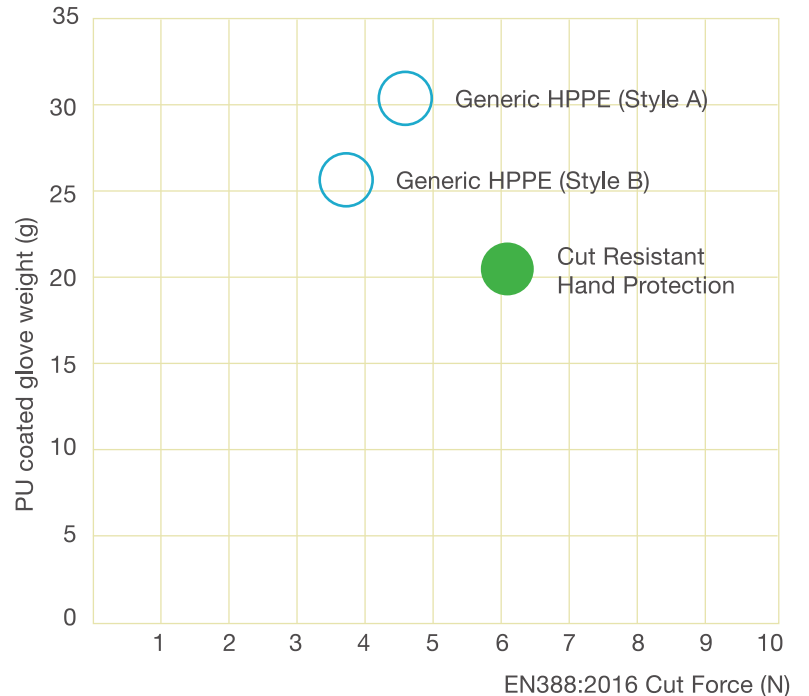
**a b c**

This standard applies to any glove to protect the hands against convective and contact cold until temperature goes down to -50°C.

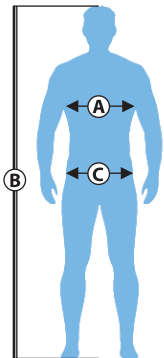
The 'cold hazard' pictogram is accompanied by a 3 - digit number:

- a. Resistance to convective cold (0-4)
- b. Resistance to contact cold (0-4)
- c. Permeability by water (0 or 1)

**Standard 13 gauge or 15 gauge PU coated glove weight and cut resistance performance comparison**





**BODY PROTECTION**

**SIZE CORRESPONDENCE TABLE  
MAN**

B	Size	XS	S	M	L	XL	XXL	XXXL
	cm	156/164	156/164	164/172	172/180	180/188	188/196	196/204

A		JACKET/VEST						
Size		44/46	46/48	48/50	50/52	52/54	54/56	56/58
cm		90/94	94/98	98/102	102/106	106/110	110/114	114/118

C		TROUSERS					
Size		34/36	38/40	42/44	46/48	50/52	54/56
cm		66/74	74/82	82/90	90/98	98/106	106/117

Employees who face possible body injury of any kind that cannot be eliminated through engineering, work practice or administrative controls, are advised to wear appropriate body protection suits while performing their tasks.

**ASSESSMENT FACTORS**

The common hazards against which body protection needs to be routinely considered are:

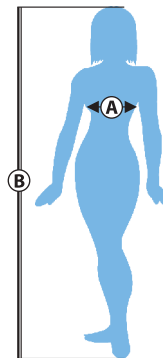
1. Temperature Stress
2. Electricity
3. Cut
4. Visibility
5. Chemical Contact

Depending on the type of hazard one can go for different types of body protective clothing

1. Fully encapsulating suits;
2. Non-encapsulating suits;
3. Firefighters' protective clothing;
4. Proximity, or approach clothing;
5. Radiation-protective suits.

**EU DIRECTIVES CLASSIFY PPE IN THREE CATEGORIES  
EN 340**

General requirements of the protective garments, used only in combination with specific standards such as EN342 etc. General requirements are for ergonomics, aging, sizing, and marking of protective clothing, and for information supplied by the manufacturer.


**WOMAN**

B	Size	S	M	L	XL	XXL
	cm	156/164	164/172	172/180	180/188	188/196

A		JACKET/VEST				
Size		S	M	L	XL	XXL
cm		82/86	86/94	94/102	102/113	113/125

**CATEGORY I : EN 342, EN 343**
**EN 342: Protection against cold**

Products are tested by measuring the insulation for an ensemble (jacket, trouser) worn. Air permeability and breathability are also measured. Figures (1, 2 or 3) are given against X for insulation, Y for air permeability and Z for breathability; higher figures are best.

X Insulations, actual data (higher figure is best)

Y Air permeability, level 1, 2 or 3

Z Breathability, level 1, 2 or 3

**EN 343: Protection against foul weather**

These garments are intended to protect against weather conditions with combinations of precipitation, rain, fog, humidity and wind till temperature goes down to +5°C. They are tested for waterproofness (X) and breathability (Y); figures (1, 2 or 3) are given and higher figures are best.

X Waterproofness, level 1, 2 or 3

Y Breathability, level 1, 2 or 3

**CATEGORY II : EN 471**
**EN 471: High visibility clothing**

The standard specifies requirements for clothing intended to provide visibility of the user in hazardous situations under any light conditions by day and under illumination by vehicle headlights in the dark (24 hours visibility). Effective visibility is to be provided by a fluorescent fabric and reflective stripes. The visibility is measured as a combination of the area and positioning of the reflective materials (X) and the quality of same (Y).

X Area reflex/fluorescent fabric, level 1, 2 or 3

Y Reflex type/quality 1 or 2

## Class 1

Class 1 defines the lowest visibility level

E.G. High Visibility trousers with two 5cm reflective bands around each leg. These become Class 3 when worn with a Class 3 jacket.

## Class 2

The class 2 defines an intermediary visibility level. Example: vests. Two 5cm bands of reflective material around the body or one 5cm band around body and braces to both shoulders.

## Class 3

The class 3 defines the highest level of visibility. Example jacket with long sleeves, jacket and trouser suit. Two 5cm bands of reflective tape around the body and arms plus braces over both shoulders.

### EN 16112:2006: Protective clothing against heat and flame

This standards replaces EN 531:1995, but please noter that the protective garments which have an EN 531 certification remain valid. The standards specifies the performance requirements for garments which protect the body from heat and flame (except the hands)

### The standard is not applicable for fire fighters (EN 469) and welders (EN 470 – EN ISO 16111:2008)

The following parameters are used:

- a Minimum requirement, fabric combination
- b Insulation against convective heat
- c Insulation against radiant heat
- d Insulation against molten cast aluminium
- e Insulation against molten cast iron.

## DISPOSABLE MEDICAL WORKWEAR


### Type 1: Gas proof suits: fully sealed suits: EN 943-1:2002

Type 1 represents the greatest danger of respiratory, eye or skin damage from hazardous vapours, gases, particulates, sudden splash, immersion or contact with hazardous materials. It calls for total encapsulation in a gas-tight chemical suit with self-contained breathing apparatus (SCBA) and appropriate accessories.

### Type 2: Limited gas-tightness: EN 943-2:2002

Limited gas-tightness. Suits prevent dust, liquids and vapours from penetrating at overpressure.

## KEY TO SYMBOLS

						
Abrasion	Breathable	Flame	Low visibility	Light & comfortable	Rainforced	Rainfall

## Types 3 & 3B: Liquid-proof protection: EN 14126:2003

Liquid-proof protection: Suits are approved to withstand compressed fluids e.g., from hoses and nozzles. The suits must have welded seams. Penetration testing must be conducted according to EN 369 to provide information on protection in relation to individual chemicals, EN 14605.

### Type 3B protects against biologically contaminated particles.

### Type 4 & 4B: Protection against liquid spray: EN 14325:2004

Type 4 suits offer protection against liquid spray and the saturation of liquids. Testing of this type of suit is similar to the testing carried out on Type 3 suits, however in this test, liquid is applied to the suit using less pressure and is then allowed to pool on and saturate the suit. During the test, the garment is subject to a shower of liquid over one minute while the subject wearing the suit rotates on a turntable. As with Type 3, this type of suit requires welded seams so that no liquid can permeate through the suit and onto the wearer.

### Type 4B protects against biologically contaminated particles.

### Type 5: Protection against airborne particles:

#### EN 13982-1:2004

Type 5 suits protect the wearer against dust and dry particles. Type 5 suits are tested by having a subject perform exercise on a treadmill while a spray cabin is filled with dust. Particle counters inside the suit then calculate the inward leakage (the amount of dust that enters the suit). These garments are suitable for industrial cleaning, site preparation and handling insulation. They are also suitable for asbestos and silica protection. When dealing with hazardous materials like these, it is important that workers have completed risk assessments and are wearing the correct clothing to avoid the risk of contamination. These are a one-use only suit as decontamination cannot be guaranteed.

### Type 6: Protection against liquid chemical splash:

#### EN 13034:2005+A1:2009

Type 6 suits protect the wearer against light spray and splashes. They are like Type 3 and Type 4 suits however they are tested with a lighter spray of liquid which is not permitted to build up on the suit. In this instance, the subject rotates on a turntable as four nozzles spray liquid on to the suit and afterwards the inside of the suit is checked for any penetration. Dependent on the testing criteria and the amount of liquid inside the suit, it will be classed as a pass or a failure. They offer the lowest level of protection and should only be worn in low-risk environments.



## FEET PROTECTION

Protective footwear worn in the workplace is designed to protect the foot from physical hazards such as falling objects, stepping on sharp objects, heat and cold, wet and slippery surfaces, or exposure to corrosive chemicals.

### ASSESSMENT FACTORS

Consideration should be given to the following basic hazard categories existing at a workplace:

1. Impact (falling/flying objects)
2. Penetration (sharp objects piercing foot/hand)
3. Compression (roll-over or pinching objects)
4. Chemical exposure (inhalation, ingestion, skin contact, eye contact or injection)
5. Extreme temperatures (heat or cold)
6. Vibration
7. Exposure to electricity

### STANDARDS

#### EN344-1/ EN ISO 20344 standard

This standard defines the overall requirements and test methods for safety footwear, protective footwear, and occupational shoes.

It may be used only in conjunction with standards EN345-1/EN ISO 20345, EN346-1/EN ISO 20346 and EN347-1/EN ISO 20347, which specify the requirements for the shoes as a function of specific levels of risk involved.

#### EN345-1/EN ISO 20345 standard

Specification for safety footwear for the workplace.

In reference to standard EN344-1 / EN ISO 20344, this European standard defines the basic and the additional (optional) requirements for safety footwear for the workplace, as marked.

The shoes are designed and equipped with safety toe caps designed to withstand a maximum impact of 200 Joules and crushing up to 15 kN.

### CROSS-SECTION OF A SAFETY SHOE



#### EN346-1/EN ISO 20346 standard

Specification for protective footwear marked. The shoes are designed and equipped with safety toe caps designed to withstand a maximum impact of 100 Joules and crushing up to 10 kN.

#### EN347-1/ EN ISO 20347 standard

Specification for occupational shoes marked. These shoes are different from safety/protective footwear in that they have no protective toe cap for impact and crushing.

### SIZE CORRESPONDANCE TABLE

Euro Size	39	40	41	42	43	44	45	46	47
UK Size	6	6 <sup>1/2</sup>	7	8	9	10	10 <sup>1/2</sup>	11	12
Mondo Point (cm)	25.9	26.6	27.3	27.9	28.6	29.3	29.9	30.6	31.3

### NEWLY INTRODUCED CLEAN ROOM SHOES

Cleanroom shoes are electrostatic and dust-proof shoes that are used in conjunction with clean suits in cleanrooms. Cleanroom shoes have excellent durability, and soles are made of polyurethane, and have excellent cushioning properties. Mallcom is producing cleanroom shoes with microfibre upper.

### WHY MICROFIBER





- Microfiber is mixture of Polyamide/nylon & polyester material on non-woven base.
- It is lighter than leather
- Chrome free
- Good shape retention in character
- As well as it pass water penetration & absorption as per requirement
- Washable

SB or S1 to S5 (safety footwear) - PB or P1 to P5 (protective footwear) - O1 to O5 (occupational shoes)			
CLASS 1 OR 2	EN 345-1 / EN ISO 20345	EN 346-1 / EN ISO 20346	EN 347-1 / EN ISO 20347
ALL MATERIALS	SB : basic properties	PB : basic properties	PB : basic properties
<b>CLASS 1</b> ALL MATERIALS EXCEPT FOR NATURAL OR SYNTHETIC	S1 : basic properties plus : – closed back – antistatic – energy absorbing heel	P1 : basic properties plus : – closed back – antistatic – energy absorbing heel	O1 : basic properties plus : – closed back – hydrocarbon-resistant sole – antistatic – energy absorbing heel
	S2 : the same as S1 plus : – waterproof	P2 : the same as P1 plus : – waterproof	O2 : the same as O1 plus : – waterproof
<b>CLASS 2</b> NATURAL AND SYNTHETIC POLYMERS	S3 : the same as S2 plus : – puncture resistant sole – studded sole	P3 : the same as P2 plus : – puncture resistant sole – studded sole	O3 : the same as O2 plus : – puncture resistant sole – studded sole
	S4 : basic properties plus : – antistatic – energy absorbing heel	P4 : basic properties plus : – antistatic – energy absorbing heel	O4 : basic properties plus : – antistatic – energy absorbing heel
	S5 : the same as S4 plus : – puncture resistant sole – studded sole	P5 : the same as P4 plus : – puncture resistant sole – studded sole	O5 : the same as O4 plus : – puncture resistant sole – studded sole

### KEY TO SYMBOLS

 Impact resistance of 200 J	 Energy absorbing heel	 Hydrocarbon resistant sole	 Protection against metal	 Oil resistant sole	 Slip resistant sole	 Antistatic
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### SRC - SLIP RESISTANCE TYPE C (comparative analysis)

SRC=SRA+SRB	SRA-CERAMICS+DETERGING SOLUTION		SRB-STEEL+GLYCERINE	
	HEEL	FLAT	HEEL	FLAT
	 Heel (inclined)	 Sole	 Heel (inclined)	 Sole
Standard (EN ISO 20345:2011)	≥0.28	≥0.32	≥0.13	≥0.18
TIGER	0.30 +7%	0.33 +3%	NA –	NA –
TIGLON	0.42 +50%	0.41 +28%	0.22 +38%	0.33 +83%
OLIVER	0.32 +14%	0.40 +25%	0.15 +15%	0.18 –





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