

Xcellent®

Want Safe and Comfort... TRY Xcellent!

A Professional Glove Solution Provider



About Xcellent

Xcellent Safety is a German company specialising in the development and manufacture of high-quality protective gloves and sleeves.

We have family-owned companies and closely cooperating factories in Asia, an experienced research and development team, state-of-the-art production technologies - We stay at the forefront of production, have know-how and extensive expertise.

We also liaise closely with our sales partners and listen carefully to what end users need. This feedback flows directly into product development - for gloves that not only fulfil standards, but exceed expectations.

All these make Xcellent a professional glove solution provider.

+ High Quality

Xcellent Safety GmbH manufactures a wide range of high quality gloves. We are constantly innovating and developing new technologies to improve our quality and make our gloves safer, more comfortable and more durable.

+ Customization & Flexibility

Thanks to our professional research and development team, we are able to customize most new products quickly for industrial projects by understanding the demand, selecting the right raw materials, doing proper formulation and controlling the quality during production.



Yarns Wrapping and Spinning Workshop



Dipping Production Line



Knitting Machines

+ Innovation and Continuous Quality Improvement

At Xcellent, we have been innovating and improving our quality in order to offer our end users the best products and to secure the business of our dealers in the work glove market.

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Xcellent[®]

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INDEX

About Xcellent	1
Cut Protection - 21 & 18 Gauge	3
Cut Protection	8
Sleeve	17
Chemical & Liquid Protection	18
Second Skin Gloves	19
Multi-Purpose Gloves	22
Thermal Protection	25
Labels & Norms	27
Notes	32

new



21-700

Ultra-thin 21 gauge cut level D glove with XTech PU coating.

- Ultra-thin, perfect fitting, super dexterity and sensitivity makes it ideal for both precision works and general-purpose works with cut hazards. Minimum hand fatigue. Very soft and comfortable.
- Cut protection level D.
- The reinforcement in the crotch greatly extends the glove life and offers extra protection.
- Touch screen functionality.

Liner: UHMWPE, steel fiber, nylon and spandex

Size Range: 6/XS - 11/2XL

Coating: XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton

21-900

Ultra-thin 21 gauge cut level F glove with XTech PU coating.

- Ultra-thin, perfect fitting, super dexterity and sensitivity makes it ideal for both precision works and general-purpose works with cut hazards. Minimum hand fatigue. Very soft and comfortable.
- Cut protection level F.
- The reinforcement in the crotch greatly extends the glove life and offers extra protection.
- Touch screen functionality.



21-901



Liner: UHMWPE, tungsten, nylon and spandex

Size Range: 6/XS - 11/2XL

Coating: XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton

18-950

New diamond 18 gauge cut level D glove with sandy nitrile coating.

- Thanks to new diamond yarn technology, the glove feels ultra-thin, perfect fitting, extra flexibility and super dexterity, ideal for both precision works and general-purpose works with cut hazards. Minimum hand fatigue. Very soft and comfortable.
- Cut protection level D.
- Sandy nitrile coating offers great grip performance and oil resistance.
- The reinforcement in the crotch greatly extends the glove life and offers extra protection.
- No glass fiber or steel fiber inside.



Liner: Diamond cut resistant yarn, spandex

Size Range: 6/XS - 11/2XL

Coating: Sandy nitrile

Packaging: 12 pairs / pack,
144 pairs / carton



18-991

Eco-friendly, ultra thin but highest level of cut protection. Super dexterous and comfortable. Sandy nitrile.

- New designed 18 gauge cut protection level F, very thin, super dexterous, flexible and comfortable.
- Highest level cut protection ensures a safe work.
- Eco-friendly, to protect our planet and workers. 1 pair equates about 1 bottle of 500ml reclaimed and recycled, taken out of landfill and 18 gram CO₂ reduced vs using virgin polyester material.
- Super dexterity, fitting and flexibility makes it ideal for both general works and precision works.
- Thanks to high quality nitrile coating, it offers great grip performance, oil resistance and durability.
- The reinforcement in the crotch greatly extends glove life to save your cost and provides extra protection in the weakest area.

Liner: 18 gauge UHMWPE, steel fiber, glass fiber, recycled polyester

Size Range: 6/XS - 11/2XL

Coating: Sandy nitrile

Packaging: 12 pairs / pack, 144 pairs / carton



18-992

Eco-friendly, ultra thin but highest level of cut protection. Super dexterous and comfortable. Polyurethane.

- New designed 18 gauge cut level F glove, very thin, super dexterous, flexible and comfortable, less hand fatigue.
- Highest level cut protection ensures a safe work.
- Eco-friendly, to protect our planet and workers. 1 pair equates about 1 bottle of 500ml reclaimed and recycled, taken out of landfill and 18 gram CO₂ reduced vs using virgin polyester material.
- Super dexterity, fitting and flexibility makes it ideal for both general works and precision works.
- The reinforcement in the crotch greatly extends glove life to save your cost and provides extra protection in the weakest area.
- Touch screen functionality.

Liner: 18 gauge UHMWPE, steel fiber, glass fiber, recycled polyester

Size Range: 6/XS - 11/2XL

Coating: XTech Polyurethane

Packaging: 12 pairs / pack, 144 pairs / carton



18-971

Premium quality 18 gauge cut protection level D glove with very comfortable, smooth and cool feeling. Sandy nitrile.

- The advanced 18 gauge lining technology contributes it as one of the thinnest & finest cut level D nitrile gloves.
- Over 30% lighter than a normal 13 gauge cut level D nitrile glove, less hand fatigue.
- Thanks to high quality nitrile coating, it offers great grip performance, oil resistance and durability.
- The reinforcement in the crotch greatly extends glove life to save your cost and provides extra protection in the weakest area.



Liner: 18 gauge UHMWPE, steel fiber, glass fiber, nylon

Size Range: 6/XS - 11/2XL

Coating: Sandy nitrile

Packaging: 12 pairs / pack, 144 pairs / carton



18-981

New design - thinner 18 gauge cut level D, close to 21 gauge, second skin feeling, micro-foam nitrile.

- New generation 18 gauge cut level D / A4 glove, which is much lighter than normal 18 gauge ones and close to 21 gauge.
- Perfect dexterity, fitting and flexibility makes it ideal for general cut protection works and precision works.
- Thanks to high quality micro-foam nitrile coating, it offers great grip performance, oil resistance and durability.
- Touch screen functionality.
- Soft and comfortable.



18-982

New design - thinner 18 gauge cut level D, close to 21 gauge, second skin feeling, XTech PU coating.

- New generation 18 gauge cut level D / A4 glove, which is much lighter than normal 18 gauge ones and close to 21 gauge.
- Perfect dexterity, fitting and flexibility makes it ideal for general cut protection works and precision works.
- Special Xcellent XTech PU formulation contributes to better grip performance and softness and comfort.
- Touch screen functionality.
- Soft and comfortable.



18-900

18 gauge cut level C, extreme thin, ESD anti-static, touch screen function. Super flexible and dexterous.

- New design - second skin feeling PU glove with cut protection level C.
- Perfect dexterity, fitting and flexibility makes it ideal for precision works.
- The antistatic property protects against the risk of ESD makes it also ideal for the electronics, oil and gas, textiles and other industries.
- 10-finger touch screen function enables you to use all touch screen devices during work.
- Special XTech Polyurethane offers a better grip performance and extra softness.

Liner: 18gg, UHMWPE, steel fiber, carbon, nylon

Coating: XTech Polyurethane

Size Range: 6/XS - 11/2XL

Packaging: 12 pairs / pack,
144 pairs / carton



18-930

18 gauge cut level B, XTech PU coating, perfect dexterity, fitting and flexibility.

- One of the most thinnest and finest cut level B glove with PU coating.
- Perfect dexterity, fitting and flexibility makes it ideal for general cut protection works and also precision works.
- Much less hand fatigue and more productivity.
- Thick and strong PU coating makes it more durable than many similar products.
- Soft and comfortable.

Liner: 18gg, UHMWPE, glass fiber, nylon

Size Range: 6/XS - 11/2XL

Coating: Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton



18-931

18 gauge cut level B, micro-foam nitrile coating, perfect dexterity, fitting and flexibility.

- The advanced 18 gauge lining technology contributes it as one of the thinnest & finest cut level B nitrile gloves.
- Over 30% lighter than a normal 13 gauge cut level B nitrile glove, less hand fatigue.
- Perfect dexterity, fitting and flexibility makes it also ideal for precision works.
- Reinforcement greatly extends glove life to save your cost and provides extra protection in the weakest area.
- OEKO-TEX standard 100 certified for skin friendly.
- Touch screen function.
- Soft and very comfortable.

Liner: 18gg, UHMWPE, glass fiber, nylon

Size Range: 6/XS - 11/2XL

Coating: Micro-foam nitrile

Packaging: 12 pairs / pack,
144 pairs / carton



18-903

Premium quality 18 gauge cut level D glove, perfect dexterity and fitting. Ideal for both general and precision works.

- Premium quality 18 gauge cut protection level D glove, much thinner and much more comfortable.
- Thanks to XArmour quality yarn and technology, it offers enjoyable, smooth and cool feeling when wearing in hand.
- Perfect dexterity, fitting and flexibility makes it ideal for precision works.
- Minimum hand fatigue and more productivity in working.
- 10-finger touch screen function.
- Food contact approved, also ideal to use with a disposable nitrile/latex glove.

Liner: 18gg, UHMWPE, steel fiber, glass fiber, nylon

Size Range: 6/XS - 11/2XL

Coating: No coating

Packaging: 12 pairs / pack,
144 pairs / carton





EN388
EN407
ANSI
4X42B X1XXXX CUT

OEKO-TEX®
STANDARD 100
Hohenstein HTTI

18 Gauge
100°C
B

12-900 Lite

18 gauge cut level B glove with sandy nitrile coating, reinforced in the crotch. Very thin, flexible and comfortable.

- Premium quality very thin 18 gauge cut protection level B glove with sandy nitrile coating.
- Perfect dexterity, fitting and flexibility makes it ideal for both precision works and general-purpose works with low cut hazards.
- Sandy nitrile coating offers great grip performance and oil resistance.
- The reinforcement in the crotch greatly extends the glove life and offers extra protection.
- Very flexible and comfortable.

Liner: 18gg, UHMWPE, nylon, spandex

Size Range: 6/XS - 11/2XL

Coating: Palm, sandy nitrile

Packaging: 12 pairs / pack,
144 pairs / carton



EN388
ANSI
4X42B CUT

OEKO-TEX®
STANDARD 100
Hohenstein HTTI

18 Gauge
B

Liner: UHMWPE, carbon, nylon, spandex

Size Range: 6/XS - 11/2XL

Coating: XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton

18-900 Lite

18 gauge cut level B glove with XTech PU coating, touch screen function. Perfect fitting and dexterity, very comfortable.

- Premium quality 18 gauge cut protection level B glove with XTech PU coating.
- Perfect fitting, dexterity and flexibility makes it ideal for both precision works and general-purpose works with low cut hazards.
- XTech PU coating offers good grip performance.
- Touch screen functionality.



EN388
ANSI
OEKO-TEX®
STANDARD 100
Hohenstein HTTI

18 Gauge
B
Dishwasher

Liner: UHMWPE, nylon, spandex

Size Range: 6/XS - 11/2XL

Coating: No coating

Packaging: 12 pairs / pack,
144 pairs / carton



EN388
EN407
ANSI
4X43C X1XXXX CUT

OEKO-TEX®
STANDARD 100
Hohenstein HTTI

15 Gauge
100 °C

12-900

15 gauge cut level C glove with sandy nitrile coating, reinforced in the crotch.

- Premium quality cut protection level C glove with high abrasion resistance.
- Much lighter than a standard 13 gauge cut level C nitrile glove, less hand fatigue.
- Perfect dexterity, fitting and flexibility makes it ideal for precision works.
- Sandy finish provides good grip in oily and dry working condition.
- Reinforcement greatly extends glove life to save your cost and provides extra protection in the weakest area.
- Soft and very comfortable.

Liner: 15gg, UHMWPE, glass fiber, others

Size Range: 7/S - 12/3XL

Coating: Palm, sandy nitrile

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



EN388
EN407
ANSI
4X43C X1XXXX CUT

OEKO-TEX®
STANDARD 100
Hohenstein HTTI

15 Gauge
100 °C

Liner: 15gg, UHMWPE, glass fiber, others

Size Range: 6/XS - 11/2XL

Coating: Palm, double nitrile (flat+sandy)

Packaging: 12 pairs / pack,
144 pairs / carton

12-901

15 gauge cut level C glove with double palm nitrile coating, reinforced in the crotch, water and oil repellent.

- Premium quality cut protection level C glove, water and oil repellent palm.
- Extra layer of coating makes it more durable and cost effective than single palm coating.
- Perfect dexterity, fitting and flexibility makes it ideal for precision works.
- Sandy finish provides good grip in oily and dry working condition.
- Reinforcement greatly extends glove life to save your cost and provides extra protection in the weakest area.
- Soft and very comfortable.
- Contact heat protection up to 100 °C according to EN407.



12-902

Flexible 18 gauge cut level C glove with 3/4 flat nitrile + palm sandy nitrile coating, reinforced in the crotch, water and oil repellent.

- Premium quality, water and oil repellent, cut protection level C.
- Thanks to high quality material and technology, it is very flexible, soft and comfortable.
- Less hand fatigue while working.
- Sandy finish provides good grip in oily and dry working condition.
- Reinforcement greatly extends glove life to save your cost and provides extra protection in the weakest area.
- Contact heat protection up to 100 °C according to EN407.

Liner: 18gg, UHMWPE, glass fiber, others

Size Range: 7/S - 11/2XL

Coating: 3/4 flat nitrile + palm sandy nitrile

Packaging: 12 pairs / pack,
144 pairs / carton

EN388
EN407
ANSI
4X43C X1XXXX CUT

OEKO-TEX®
STANDARD 100
Hohenstein HTTI

18 Gauge
100 °C



12-903

Flexible 15 gauge cut level C glove with full flat nitrile + palm sandy nitrile coating, water and oil repellent.

- Water and oil repellent, a full coating offers more protection to the hand, cut protection level C.
- Thanks to high quality material and technology, it is flexible, soft and comfortable.
- Less hand fatigue while working.
- Sandy finish provides good grip in oily and dry working condition.
- Contact heat protection up to 100 °C according to EN407.



Liner: 15gg, UHMWPE, glass fiber, others

Size Range: 7/S - 11/2XL

Coating: full flat nitrile + palm sandy nitrile

Packaging: 12 pairs / pack,
144 pairs / carton



12-905

15 gauge cut level C glove with micro-foam nitrile coating and dots, reinforced in the crotch. Better grip and more durable.

- Premium quality cut protection level C glove.
- Extra dots offer a better grip performance to ensure a solid and safe grip, also it is more durable and cost effective.
- Perfect dexterity, fitting and flexibility makes it also ideal for precision works.
- Reinforcement greatly extends glove life to save your cost and provides extra protection in the weakest area.
- Soft, comfortable and good fitting.
- Contact heat protection up to 100 °C according to EN407.

Liner: 15gg, UHMWPE, glass fiber, others

Size Range: 7/S - 11/2XL

Coating: Palm, micro-foam nitrile, dots

Packaging: 12 pairs / pack,
144 pairs / carton



12-900LP

Eco friendly, 15 gauge cut level D glove with micro-foam nitrile coating and leather in the palm. Oil & heat resistance. More durable.

- High quality cut protection level D glove with flexibility and comfort, oil resistance and heat resistance.
- Extra leather in the palm offers a much better puncture protection, more durable and a higher contact heat protection.
- Reinforcement in the crotch offers extra durability and more protection while working.
- Very flexible and a lighter weight of the glove liner contributes to more comfort and much less hand fatigue.
- Good fitting.



Liner: 15gg, UHMWPE, glass fiber, recycled polyester, others

Size Range: 8/M - 11/2XL

Coating: Palm, micro-foam nitrile, leather

Packaging: 6 pairs / pack,
72 pairs / carton



X-007

Superior flame resistant, arc flash, cut and heat protection glove. 4 in 1 design.

- Superior Arc Flash & Flame & Cut & Heat Protection.
- Arc Rating (APTV) = 10,3 cal/cm² as per ASTM F2675/ F2675M:2019. Class 2.
- Great cut protection - level D, which is good for cut hazards for works with sharp or rough edge materials.
- Contact heat, convective heat and radiant heat protection.
- Special coating formulation provides extra durability. Much better grip than a standard leather glove.
- Super flexibility and dexterity, minimizing hand fatigue, also ideal for precision works.

Liner: 13gg, Confidential

Size Range: 7/S - 11/2XL

Coating: Palm, Confidential

Packaging: 6 pairs / pack,
72 pairs / carton



X-015

Impact, cut, vibration and contact heat protection glove, 15 gauge cut level C. Softer and more comfortable.

- Good quality TPR pads offer additional softness and great flexibility.
- Thanks to thicker and special TPR design, it offers better impact protection.
- New crotch reinforcement provides better fit and comfort than others with fabric.
- Extra sponge pad in the palm offers good vibration protection.
- Softer and more comfortable than most similar 13 gauge products on the market.
- The velcro design makes it easy to wear and keep the glove in position when wearing.

Liner: 15gg, UHMWPE, glass fiber, others

Size Range: 8/M - 11/2XL

Coating: Palm, sandy nitrile

Packaging: 6 pairs / pack,
72 pairs / carton (Individual pack available)



X-017

Impact, cut and contact heat protection glove, 13 gauge cut level F, more durable double nitrile coating.

- Thicker and great TPR design provides great impact protection, high quality TPR pads are softer, more flexible and comfortable.
- Double nitrile coating offers great durability and puncture resistance, water and oil repellent. Sandy finish provides great grip performance.
- Reinforced in the thumb crotch to greatly extend the glove life and increase the abrasion resistance in the weakest area.
- The velcro design makes it easy to wear on and off and keeps the glove in position when wearing.

Liner: 13gg, UHMWPE, steel fiber, glass fiber, others

Size Range: 7/S - 11/2XL

Coating: Palm, sandy nitrile; Palm, flat nitrile

Packaging: 6 pairs / pack,
72 pairs / carton

12-330

High quality 13 gauge cut level B glove with PU coating.

- Cut protection level B with great abrasion resistance.
- Special XTech PU formulation contributes to better grip performance and extra softness and comfort.
- High quality yarns with advanced technology contributes to smooth surface, great softness and comfort.
- Ergonomic, good fitting and great dexterity makes it ideal for general purpose and some precision works.



Liner: 13gg, UHMWPE, nylon, spandex

Size Range: 6/XS - 11/2XL

Coating: Palm, Polyurethane

Packaging: 12 pairs / pack,
120 pairs / carton (Individual pack available)



Liner: 13gg, UHMWPE, spandex

Size Range: 6/XS - 11/2XL

Coating: Palm, XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton

12-330 EF

Eco friendly, high quality 13 gauge cut level B glove with PU coating.

- Eco-friendly, to protect our planet and workers. 1 pair equates about 1 bottle of 500ml reclaimed and recycled, taken out of landfill and 18 gram CO₂ reduced vs using virgin polyester material.
- Cut protection level B.
- High quality yarns contribute to smooth surface, great softness and comfort.
- Ergonomic, great fitting and dexterity makes it ideal for general purpose and some precision works.



Liner: 13gg, UHMWPE, recycled polyester, spandex

Size Range: 6/XS - 11/2XL

Coating: Palm, XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



12-350

Premium quality 13 gauge cut level D glove with XTech PU coating. A lighter weight, extra softness and comfort.

- Cut protection level D with great abrasion resistance.
- Special Xcellent XTech PU formulation contributes to better grip performance and extra softness and comfort.
- Upgraded lining with high quality yarns offers extra comfort, softness and lighter weight, smooth feeling.
- Ergonomic, good fitting and flexible.



Liner: 13gg, UHMWPE, glass fiber, nylon, spandex

Size Range: 7/S - 11/2XL

Coating: Palm, XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton



12-351

Premium quality 13 gauge cut level D glove with XTech PU coating. A lighter weight, extra softness and comfort. Touch screen function.

- Cut protection level D with great abrasion resistance.
- Special Xcellent XTech PU formulation contributes to better grip performance and extra softness and comfort.
- Upgraded lining with high quality yarns offers extra comfort, softness and lighter weight, smooth feeling.
- Reinforcement in the crotch greatly extends glove life to save your cost and provides extra protection in the weakest area.
- Touch screen function enables you to use touch screen devices on the jobs.



Liner: 13gg, UHMWPE, glass fiber, nylon, spandex

Size Range: 7/S - 11/2XL

Coating: Palm, XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



12-352R

13 gauge cut level E glove with XTech PU coating, reinforced in the crotch, touch screen function.

- 13 gauge cut level E with great abrasion resistance.
- Thanks to the advanced yarns wrapping and knitting technology, it is very soft, flexible and comfortable.
- Reinforcement greatly extends glove life to save your cost and provides extra protection in the weakest area.
- 10-finger touch screen function enables you to use all touch screen devices on the jobs.
- Ergonomic and good fitting.



Liner: 13gg, UHMWPE, steel fiber, glass fiber, nylon, spandex

Size Range: 7/S - 11/2XL

Coating: Palm, XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton



12-360

13 gauge cut level D glove with PU coating, touch screen function. Economic.

- High quality level D cut protection glove with great abrasion resistance.
- 10-finger touch screen function enables you to use all touch screen device on the jobs.
- Great flexibility and dexterity.
- Softer, more comfortable and smoother than many normal quality cut D PU gloves in the market.
- Good to hide dirt.
- Promotion items.

Liner: 13gg, cut resistant yarns and others

Size Range: 7/S - 11/2XL

Coating: Palm, Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



12-361

13 gauge cut level E glove with nitrile coating, touch screen function. Economic. Water & oil repellent palm.

- High quality level E cut protection glove with great abrasion resistance.
- Water and oil repellent palm, makes it ideal for both dry and wet working conditions.
- Soft and comfortable. Great dexterity, flexibility and good fitting.
- 10-finger touch screen functionality.
- Contact heat protection up to 250 °C according to EN407.
- Promotion items.

Liner: 13gg, cut resistant yarns and others

Size Range: 7/S - 11/2XL

Coating: Palm, foam nitrile

Packaging: 12 pairs / pack,
144 pairs / carton



12-354

13 gauge cut level D glove with sandy nitrile coating, reinforced in the crotch. High visibility. Soft, flexible and comfortable.

- High quality cut protection level D glove with great abrasion resistance.
- Sandy finish provides good grip in oily and dry working condition.
- Soft, flexible and comfortable. Good fitting.
- Contact heat protection up to 100 °C acc. to EN407.
- High Visibility colour provides extra safety for challenge light conditions and perfect fit for hi-vis workwear.

Liner: 13gg, UHMWPE, glass fiber, nylon, spandex

Size Range: 7/S - 11/2XL

Coating: Palm, sandy nitrile

Packaging: 12 pairs / pack,
144 pairs / carton



12-380

13 gauge cut level F glove with PU coating, touch screen function. Soft and comfortable.

- The highest level cut protection - cut level F.
- Advanced yarns technology providing the highest level cut protection but still soft, flexible and comfortable.
- Special Xcellent XTech PU formulation contributes to better grip performance and extra softness and comfort.
- Good fitting and dexterity.
- 10-finger touch screen function enables you to use all touch screen device on the jobs.

Liner: 13gg, UHMWPE, steel fiber, others

Size Range: 7/S - 11/2XL

Coating: Palm, XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



12-383

13 gauge cut level E glove with micro-foam nitrile coating, food contact approved, touch screen function.

- Premium quality, super cut protection at level E.
- Advanced yarns technology providing super cut protection but still very soft, flexible and comfortable.
- Food contact approved and blue colored.
- 10-finger touch screen function enables you to use all touch screen device on the jobs.
- Contact heat protection up to 100 °C according to EN407.

Liner: 13gg, UHMWPE, steel fiber, others

Size Range: 7/S - 11/2XL

Coating: Palm, micro-foam nitrile

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



12-387

13 gauge cut level F glove with sandy nitrile coating, reinforced in the crotch, touch screen function. High visibility colour.

- Premium quality cut protection level F glove with great abrasion resistance.
- High visibility yellow provides extra safety in challenging light conditions and easy to recognise.
- Soft, flexible and comfortable. Good fitting.
- 10-finger touch screen function enables you to use any touch screen devices during work.
- Reinforcement greatly extends glove life to save your cost and provides extra protection.

Liner: 13gg, UHMWPE, steel fiber, others

Size Range: 7/S - 11/2XL

Coating: Palm, sandy nitrile

Packaging: 12 pairs / pack,
144 pairs / carton





12-368

13 gauge cut level D glove with 3/4 flat nitrile + palm sandy nitrile coating, reinforced in the crotch. Flexible. Water & oil repellent.

- Water and oil repellent, cut protection level D.
- Reinforcement greatly extends glove life to save your cost and provides extra protection in the weakest area.
- Sandy finish provides super grip in oily and dry working condition.
- Flexible, comfort and good fitting.
- Contact heat protection up to 100 °C acc. to EN407.



12-369

13 gauge cut level D glove with full flat nitrile + palm sandy nitrile coating. Water & oil repellent.

- Water and oil repellent, cut protection level D.
- Sandy finish provides super grip in oily and dry working condition.
- Great flexibility, comfort and good fit.
- Contact heat protection up to 100 °C according to EN407.



12-370

13 gauge cut level D glove with leather in the palm, extra durability, heat protection.

- Cut protection level D.
- High quality leather in the palm offers a much better puncture protection, extra durability and a higher contact heat protection.
- Contact heat protection up to 100 °C.
- Soft, flexible and comfortable.

Liner: 13gg, UHMWPE mixed with others

Size Range: 7/S - 11/2XL

Coating: Palm, leather

Packaging: 6 pairs / pack,
72 pairs / carton



12-372

13 gauge cut level D glove with sandy nitrile coating, premium quality leather in the palm. Extra softness. Heat & oil resistance.

- High quality cut protection level D glove with great flexibility and comfort.
- Premium soft and comfortable leather in the palm offers great puncture protection, more durable and a higher contact heat protection.
- The nitrile coating contributes to great oil resistance and extra heat protection.
- Good fitting.

Liner: 13gg, UHMWPE mixed with others

Size Range: 7/S - 11/2XL

Coating: Palm, sandy nitrile, leather

Packaging: 6 pairs / pack,
72 pairs / carton

12-260

10 gauge cut level D glove, food contact approved. Very washable and cost effective.

- Cut level D protection, food contact approved.
- Washable up to 36 times, very durable and cost efficient.
- Great dexterity, flexibility & fitting.
- Blue color for easier recognition.
- Ambidextrous design.
- Comfortable.

Liner: 10gg, UHMWPE, others

Size Range: 7/S - 11/2XL

Coating: No coating

Packaging: Individual pack,
12 pairs / big pack, 120 pairs / carton

30-910

Super thin and comfortable, 18 gauge cut protection level C sleeve. 36cm length.

- Thanks to 18 gauge knitting technology and quality yams, the sleeve is ultra thin and comfortable.
- Cut protection level C.
- Very stretchable to fit strong and slim arms.

Liner: 18 gauge, UHMWPE, glass fiber, others

Size Range: S, XL

Coating: No coating

Packaging: 12 pairs / pack,
144 pairs / carton

30-735



13 gauge cut level F sleeve, velcro design, soft and comfortable. 35cm length.

- Highest level cut protection sleeve - cut level F.
- Advanced yarns wrapping and knitting technology provides super cut protection but also great wearing comfort and softness.
- The velcro design holds the sleeve in position when wearing.
- Straight cuff is very good fit to wear a glove.

Liner: 13gg, UHMWPE, steel fiber, others

Size Range: -

Coating: No Coating

Packaging: 12 pairs / pack,
144 pairs / carton



new



30-745

New special design 13 gauge cut level F sleeve, velcro design, soft and comfortable. 45cm length. Better fit.

- Highest level cut protection sleeve - cut level F.
- Special design in the upper arm together with velcro makes it better fit the arm (no matter strong arm or slim arm), more comfortable and holds the sleeve in position when wearing.
- Extra band design can hold the sleeve in position in the bottom and also more comfortable.
- Advanced yarns wrapping and knitting technology provides super cut protection but also great wearing comfort and softness.

Liner: 13gg, UHMWPE, steel fiber, others

Size Range: M, L

Coating: No Coating

Packaging: 12 pairs / pack,
144 pairs / carton

30-745Y

New special design 13 gauge cut level F sleeve, velcro design, soft and comfortable. 45cm length. Better fit.

- Highest level cut protection sleeve - cut level F.
- Special design in the upper arm together with velcro makes it better fit the arm, comfortable and holds the sleeve in position when wearing.
- Advanced yarns wrapping and knitting technology provides super cut protection but also great wearing comfort and softness.
- High visibility color offers more safety when working in dark or outdoor conditions.



Liner: 13gg, UHMWPE, steel fiber, others

Size Range: -

Coating: No Coating

Packaging: 12 pairs / pack,
144 pairs / carton

78-309



Super chemical & cut protection glove, oil & water repellent. 18 gauge cut level E. Soft and flexible.

- Oil proof and waterproof, excellent chemicals resistance.
- Cut level E protection.
- 18 gauge liner with advanced coating technology contributes to excellent flexibility, dexterity and comfort.
- Contact heat protection up to 100 °C according to EN407.
- The sandy finish coating offers super grip in oily and wet conditions.
- EN374-1:2016 / Type A.



Liner: 18 gauge UHMWPE, steel fiber, others

Size Range: 8/M - 12/3XL

Coating: Palm, sandy nitrile; Full, flat nitrile

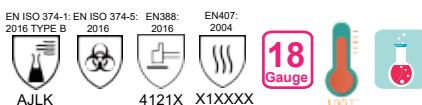
Packaging: 6 pairs / pack,
72 pairs / carton

78-307



Good chemical resistance, oil & water repellent. 18 gauge. Excellent flexibility, dexterity and comfort.

- Water and oil repellent, good chemical resistance.
- 18 gauge knitting technology with advanced coating technology contributes to excellent flexibility, dexterity and comfort.
- The sandy finish coating offers super grip in oily and wet conditions.
- Good fitting.
- Contact heat protection up to 100 °C according to EN407.
- EN374-1:2016 / Type B.



Liner: 18 gauge polyamide

Size Range: 8/M - 12/3XL

Coating: Palm, sandy nitrile; Full, flat nitrile

Packaging: 12 pairs / pack,
144 pairs / carton

18-001 EF



Specialist eco-friendly glove made using recycled plastic bottles. Second skin feeling. 18 gauge, PU coating.

- Eco-friendly, to protect our planet and workers. 1 pair equates about 1.6 bottle of 500ml reclaimed and recycled, taken out of landfill and 28 gram CO₂ reduced vs using virgin polyester material.
- Second skin feeling. Extreme light glove with perfect dexterity, flexibility and minimum hand fatigue.
- Special XTech PU formulation offers better grip performance than similar products in the market.
- Super soft, comfortable and perfect fit.
- 10-finger touch screen functionality enables you to use all touch screen devices on the jobs.
- Much lighter than a standard 13 gauge PU glove.

Liner: 18 gauge 100% Recycled Polyester

Size Range: 6/XS - 11/2XL

Coating: Palm, XTech polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton

18-008 EF



Specialist eco-friendly glove made using recycled plastic bottles. Very light. 18 gauge, sandy nitrile coating.

- Eco-friendly, to protect our planet and workers. 1 pair equates about 1.6 bottle of 500ml reclaimed and recycled, taken out of landfill and 28 gram CO₂ reduced vs using virgin polyester material.
- Very light glove with perfect dexterity, flexibility and less hand fatigue, ideal for general purpose works and precision works.
- Sandy nitrile coating offers great grip performance in dry and oily conditions.

Liner: 18 gauge 100% Recycled Polyester

Size Range: 6/XS - 11/2XL

Coating: Palm, Sandy nitrile

Packaging: 12 pairs / pack,
144 pairs / carton

18-001



Second skin feeling. Extremely light, perfect dexterity and flexibility. 18 gauge, XTech Polyurethane.

- Second skin feeling. Extremely light glove with perfect dexterity, flexibility and minimum hand fatigue.
- Much lighter than a standard 13 gauge PU glove.
- Super soft, comfortable and perfect fit.
- 10-finger touch screen function enables you to use all touch screen devices during work.
- Special XTech PU formulation offers better grip performance in dry working conditions.

Liner: 18 gauge Polyamide

Size Range: 6/XS - 11/2XL

Coating: Palm, XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



18-001W

Second skin feeling. Extremely light, perfect dexterity and flexibility. 18 gauge, XTech Polyurethane. Clean works.

- Second skin feeling. Extremely light glove with perfect dexterity, flexibility and minimum hand fatigue.
- Special XTech PU formulation offers better grip performance than similar products in the market.
- Super soft, comfortable and perfect fit.
- 10-finger touch screen function enables you to use all touch screen devices on the jobs.
- Much lighter than a standard 13 gauge PU glove.

Liner: 18 gauge Polyamide

Size Range: 6/XS - 11/2XL

Coating: Palm, XTech Polyurethane

Packaging: 12 pairs / pack,
144 pairs / carton



18-002

Second skin feeling. Extremely light, perfect dexterity and flexibility. 18 gauge, micro-foam nitrile.

- Second skin feeling. Extremely light glove with perfect dexterity, flexibility and minimum hand fatigue.
- Around 40% lighter than a 13 gauge nitrile glove.
- Super soft, comfortable and perfect fit.
- 10-finger touch screen function enables you to use all touch screen devices during work.
- Good grip in light oil and dry working condition.
- OEKO-TEX standard 100 certified for skin friendly.

Liner: 18 gauge Polyamide

Size Range: 6/XS - 11/2XL

Coating: Palm, micro-foam nitrile

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



18-003

Second skin feeling. Extremely light, perfect dexterity and flexibility. 18 gauge, micro-foam nitrile and extra dots. Better grip, more durable.

- Second skin feeling. Extremely light glove with perfect dexterity, flexibility and minimum hand fatigue.
- Extra high quality nitrile dots provides super grip performance and more durability.
- Super soft, comfortable and perfect fit.
- 10-finger touch screen function enables you to use all touch screen devices during work.
- OEKO-TEX standard 100 certified for skin friendly.

Liner: 18 gauge Polyamide

Size Range: 6/XS - 11/2XL

Coating: Palm, micro-foam nitrile, dots

Packaging: 12 pairs / pack,
144 pairs / carton (Individual pack available)



18-008

18 gauge nylon glove with sandy nitrile coating. Very good fitting and dexterity.

- Very light glove with perfect dexterity, flexibility and minimum hand fatigue.
- More flexible, soft and comfortable than most of the popular 15 gauge grey nitrile gloves.
- Super soft, comfortable and perfect fitting.
- Good grip in oily or dry working conditions.



18-009P

18 gauge nylon glove with double nitrile coating. Very good fitting and dexterity. Water & oil repellent, more durable.

- Water and oil repellent palm, super abrasion resistance.
- Extremely light glove with perfect dexterity, flexibility and minimum hand fatigue.
- Sandy finish provides good grip in wet and dry working condition.
- Soft, comfortable and good fitting.
- Contact heat protection up to 100 °C according to EN407.



18-009

18 gauge nylon glove with 3/4 flat nitrile + palm sandy nitrile coating. Flexible, water & oil repellent.

- Water and oil repellent, super abrasion resistance.
- The 18 gauge technology with advanced coating formulation makes it more flexible and great dexterity.
- Less hand fatigue compared to similar 13 or 15 gauge products.
- Sandy finish provides good grip in wet and dry working condition.
- Soft, comfortable and good fitting.
- Contact heat protection up to 100 °C according to EN407.

Liner: 18 gauge polyester

Size Range: 6/XS - 11/2XL

Coating: Palm, sandy nitrile; 3/4, flat nitrile

Packaging: 12 pairs / pack,
144 pairs / carton



3030

15 gauge nylon carbon glove with micro-foam nitrile coating, touch screen function, better fitting.

- New Design - 10-finger touch screen function makes it a smart glove and enables you to use touch screen devices during the work. A better fitting, super flexibility and dexterity makes it ideal for precision works, such as assembly, inspection, maintenance and etc.
- OEKO-TEX standard 100 certified.
- Good grip in dry and little wet working condition.
- Oil and water resistance in the palm coating area.

Liner: 15 gauge polyamide, carbon, polyester, spandex

Size Range: 6/XS - 11/2XL

Coating: Palm, micro-foam nitrile

Packaging: 12 pairs / pack, 144 pairs / carton (Individual pack available)



3000

High quality 15 gauge poliamide spandex glove with sandy nitrile coating, flexible, soft and comfortable.

- Super abrasion resistance with great flexibility, softness and comfort.
- Very good fitting and great dexterity.
- Sandy finish offers good grip in wet, oily and dry working conditions.
- 360° breathability to keep your hands cool.
- Contact heat protection up to 100 degree C.
- Blue color = 3001

Liner: 15 gauge polyamide, spandex

Size Range: 6/XS - 11/2XL

Coating: Palm, sandy nitrile

Packaging: 12 pairs / pack, 144 pairs / carton (Individual pack available)

3000 EF

Eco friendly, 15 gauge R-PET poliamide spandex glove with nitrile coating, flexible, soft and comfortable. Touch screen functionality.

- Eco-friendly, to protect our planet and workers. 1 pair equates about 2 bottle of 500ml reclaimed and recycled, taken out of landfill and about 36 gram CO₂ reduced vs using virgin polyester material.
- Super abrasion resistance with great flexibility, softness and comfort.
- Very good fitting and great dexterity.
- Sandy finish offers good grip in wet, oily and dry working conditions.
- 360° breathability to keep your hands cool.
- Contact heat protection up to 100 degree C.
- Touch screen functionality.

Liner: 15 gauge recycling polyamide, spandex

Size Range: 6/XS - 11/2XL

Coating: Palm, sandy nitrile

Packaging: 12 pairs / pack, 144 pairs / carton





3006

High quality 15 gauge glove with micro-foam nitrile coating, extra dots. Great grip and additional durability. Touch screen function.

- High quality nitrile dots contribute to excellent abrasion resistance, great grip and additional durability.
- Touch screen function enables you to use touch screen devices during work.
- Super flexible, soft and comfortable.
- High visibility orange colour offers extra safe in dark condition or some outdoor works.
- Contact heat protection up to 100 degree C.

Liner: 15gg, polyester, spandex, others

Size Range: 7/S - 11/2XL

Coating: Palm, micro-foam nitrile, nitrile dots

Packaging: 12 pairs / pack, 144 pairs / carton (Individual pack available)



3008

High quality 15 gauge nylon spandex glove with special nitrile coating. Very good grip. Dexter, soft and comfortable.

- Super flexible, great dexterity, soft and comfort.
- OEKO-TEX Standard 100 certified for skin-friendly.
- High quality coating makes it more durable.
- 360° breathability to keep your hands cool.
- Great fitting.

Liner: 15gg, Polyamide, others

Size Range: 6/XS - 11/2XL

Coating: Palm, micro-foam nitrile

Packaging: 12 pairs / pack, 144 pairs / carton



3009

15 gauge polyester glove with full flat nitrile + palm sandy nitrile coating. Water & oil repellent, flexible and comfortable.

- Waterproof and oil proof.
- Contact heat protection up to 100 degree C.
- Sandy finish offers good grip in wet, oily and dry working conditions.

Liner: 15gg, polyester

Size Range: 7/S - 11/2XL

Coating: Palm, sandy nitrile; Full flat nitrile

Packaging: 12 pairs / pack, 144 pairs / carton (Individual pack available)

2111



**13 gauge special polyester glove with sandy latex coating.
Super soft and grip. Very flexible.**

- Thanks to the advanced lining and coating technology, it is super soft, flexible and very comfortable.
- Excellent fit and good dexterity.
- The sandy finish offers great grip in dry, wet and oily conditions.
- 360° breathability to keep your hands cool.



Liner: 13gg, special polyester

Size Range: 7/S - 11/2XL

Coating: Palm, sandy latex

Packaging: 12 pairs / pack,
144 pairs / carton



51-500

Cold & heat resistance, high quality 10 gauge brushed acrylic glove with sandy latex coating. Very soft and comfortable.

- Great cold and heat resistance.
- Super softness, flexibility, comfort and fitting.
- Sandy latex coating contributes a better grip performance.
- High visibility orange color is also good for outdoor works or dark situation.



51-900

Excellent cold resistance, cut level C, water and oil repellent, more abrasive.

- Thanks to Xcellent WarmTech®, it offers excellent cold resistance which is ideal for cold storage works and winter season works.
- Cut protection level C offers more protection.
- High quality nitrile coating makes the glove can be more than 3 TIMES abrasive and more cost effective.
- Water and oil repellent palm, to prevent the water/oil go through the glove and keep the hand warm and clean.
- Good grip performance in dry or little wet working conditions.



51-802

Excellent cold resistance, waterproof & windproof, super soft and very flexible.

- Excellent cold resistance, waterproof and windproof.
- Great softness, flexibility and comfort.
- Sandy finish offers good grip in wet, oily and dry working conditions.
- Good fitting.

Liner: 15gg+7gg, brushed acrylic, others
Coating: Palm, sandy latex; Full, flat latex

Size Range: 7/S - 11/2XL

Packaging: 12 pairs / pack, 120 pairs / carton (Individual pack available)

Size Range: 7/S - 11/2XL

Packaging: 12 pairs / pack, 120 pairs / carton (Individual pack available)

new



51-818 PRO

Cold & heat resistance, cut level 5/C, high quality 10 gauge brushed acrylic glove with sandy nitrile coating. More durable.

- Great cold and heat resistance.
- Cut protection level 5 (EN388:2016).
- 10 gauge brushed acrylic cut resistant liner guarantees excellent cold resistance and provides extra comfort & softness compared with the standard 7 gauge one in the market.
- The nitrile coating makes it more durable (2+ times abrasion resistance) and also better for oily work.
- Super softness, flexibility and comfort.

Liner: 10gg, brushed acrylic, UHMWPE, others

Size Range: 7/S - 11/2XL

Coating: Palm, sandy nitrile

Packaging: 12 pairs / pack, 120 pairs / carton (Individual pack available)



12-401

Highest level of contact heat protection, cut level C, excellent flexibility and comfortable, silicon coating, cost effective.

- Highest level for contact heat protection - level 4, can withstand 500 °C.
- One of the MOST flexible & comfortable heat resistant level 4 gloves in the market.
- Both sides silicon coated providing excellent grip, and extra heat resistance.
- TDM cut level C protection.
- Ambidextrous with two sides silicon coated design, for much longer use time, greatly save the cost.

Liner: 8gg, thermo resistant yarns

Size Range: 10/XL

Coating: Full, silicon

Packaging: Individual pack, 6 pairs / big pack, 72 pairs / carton

12-251

High quality contact heat protection glove up to 250 degree C, very good fitting, soft and comfortable.

- Premium quality heat resistant glove which can withstand more than 250 °C according to EN407.
- Thanks to the advanced technology, it has a very good fitting even on a double layer glove.
- Soft and comfortable. Very flexible.
- High breathability to reduce hand perspiration.



Liner: 7gg, Kevlar, Nomex, cotton, others

Size Range: 7/S - 11/2XL

Coating: No coating

Packaging: 6 pairs / pack, 72 pairs / carton

Labels of Protective Gloves



EN 388:2016 + A1:2018
Protective gloves against mechanical hazards



EN 407:2020
Protective gloves against thermal risks (heat and/or fire).



EN407:2020
Protective gloves against thermal risks (heat and/or fire).
No flame protection.



EN511:2006
Protective gloves against cold



EN16350:2014
Protective gloves against electrostatic properties.



EN ISO 374-1:2016 + A1:2018
Protective gloves against hazardous chemicals and micro-organisms - Part 1: Terminology and performance requirements against chemical hazards.



EN ISO 374-5:2016
Protective gloves against hazardous chemicals and micro-organisms - Part 5
Part 5: Terminology and performance requirements for micro-organism hazards



ANSI Standards
Cut protection - from level A1 to A9.



Suitable for food contact and handling



Touch screen compatible



Gloves made from recycled R-PET bottles



ESD



Breathable in liner and coating



Cold hazards



Impact hazards



Chemicals hazards



21 Gauge



18 Gauge



15 Gauge



13 Gauge



10 Gauge



8 Gauge



7 Gauge

The gauge reflects the thickness of the glove, the bigger gauge the thinner. For example, 18 gauge glove is thinner than 15 gauge one.

EN388



XXXXXX

The gloves are labelled with a pictogram and the performance levels. The performance levels are defined by four numbers and two letters.

These markings refer to the following parameters:

- * Abrasion resistance (0-4)
- * Cut resistance (0-5)
- * Tear propagation force (0-4)
- * Puncture resistance (0-4)
- * Cut resistance according to EN ISO 13997 (A-F)
- * When testing for protection against impact, the letter 'P' is also specified.

The following example illustrates the labelling using graphic symbols and power levels:

EN388



4 X 4 3 F P

- Protection against impact, 'P' = Pass, 'F' = Fail, no letter = not applicable
- Cut resistance according to EN ISO 13997 (level A-F)
- Puncture resistance (level 0-4)
- Tear propagation force (level 0-4)
- Cut resistance (level 0-5)
- Abrasion resistance (level 0-4)

EN407



XXXXXX

EN407



XXXXXX

Performance levels

The pictogram is followed by six numbers that represent the results of the test for defined loads in performance levels. They stand for:

- * limited flame resistant (0-4)
- * contact heat (0-4)
- * convective heat (0-4)
- * radiant heat (0-4)
- * small splashes of molten metal (0-4)
- * large quantities of molten metal (0-4)

The higher the numerical value, the better the test result.

If a performance level (at least 1) is achieved for limited flame training, the following pictogram is provided:



If no performance level for limited flame training is specified (non-flame-resistant protective gloves), the following pictogram must be used instead:



This means that only one of the two pictograms may appear on a product at any one time.
Below you will find two examples of the labelling of protective gloves against thermal hazards



EN407
4 1 4 3 2 1



EN407
X 1 4 3 2 1

- Large quantities of molten metal (0-4)
- Small splashes of molten metal (0-4)
- Radiant heat (0-4)
- Convective heat (0-4)
- Contact heat (0-4)
- Limited flame resistant (0-4)



X X X

The pictogram is followed by three numbers that represent the results of the test for defined loads in performance levels. They stand for:

- * convective cold (0-4)
- * contact cold (0-4)
- * water proof (0-1)

Below you will find an example of labelling with an explanation of the performance levels:



1 2 1

- '1' = waterproof ('0' = not waterproof)
- contact cold level 2
- convective cold level 1

EN ISO 374-1



EN ISO 374-5



Chemical hazards exist when working with solid, liquid and gaseous chemicals. Chemicals can irritate and destroy the skin or be absorbed through intact skin (skin-resorptive effect) and thus damage the entire body, have a sensitising effect and trigger allergies.

A glove that offers good protection against a specific chemical substance may offer poor protection against a mixture of chemical substances.

- As a general rule, chemical protective gloves are intended for single use only. They should not be reused.
- A glove that has already been used is chemically contaminated and there is a risk that the skin will come into contact with harmful substances during handling.
- Higher temperatures shorten the penetration time of the chemical substance.

- Thicker materials generally provide longer protection against penetration.
- Once a chemical substance has been absorbed, the penetration (permeation) of the protective glove continues.
- The substance penetrates the glove on a molecular level, which is invisible to the naked eye.
- Even the best gloves lose their protective properties if they are mechanically damaged or the chemical substance has penetrated the material.
- Strongly corrosive chemicals can destroy the glove material through decomposition even before the specified penetration time

Labelling

The protective gloves are labelled with pictograms, the performance levels and the chemical resistance.

Chemical resistance: Protective gloves are tested by the manufacturer with various test chemicals.

Code Letter	Test Chemicals	Class
A	Methanol Primary	Alcohol
B	Acetone	Ketone
C	Acetonitrile	Nitrile
D	Dichloromethane	Chlorinated hydrocarbon
E	Carbon disulphide	Sulphurous organic compound
F	Toluene	Aromatic hydrocarbon
G	Diethylamine	Amine
H	Tetrahydrofuran	Heterocyclic and ether compounds
I	Ethyl acetate	Ester
J	n-heptane	Aliphatic hydrocarbon
K	Sodium hydroxide 40%	Inorganic base
L	Sulphuric acid 96%	Inorganic acid
M	Nitric acid 65%	Inorganic acid
N	Acetic acid 99%	Organic acid
O	Ammonia water 25%	Organic base
P	Hydrogen peroxide 30%	peroxide
S	Hydrofluoric acid 40%	Inorganic acid
T	Formaldehyde 37%	Aldehyde

According to EN 374, the permeation time (breakthrough time) is the time required for a specific chemical to penetrate the glove material. There are six performance levels with different permeation times:

- * Performance level 1: > 10 min
- * Performance level 2: > 30 min
- * Performance level 3: > 60 min
- * Performance level 4: > 120 min
- * Performance level 5: > 240 min
- * Performance level 6: > 480 min

The selection of the performance level depends on the actual wearing time.

On first contact with the chemical, the permeation time begins to run and thus limits the wearing time.

It is important to note that no chemical protective glove provides 100% permanent protection, as the chemicals penetrate the glove material and thus eliminate the protection.

Example: If a protective glove of performance level 4 (> 120 minutes) is wetted with a solvent, it can be used for a maximum of two hours from the start of wetting. Permeation occurs within this time even if the protective glove is removed and set aside.

Increased temperature and stretching while working can reduce the wearing time by more than 50 %.

The performance level is not labelled on the protective glove because different materials have different permeation times.

Chemical protective gloves are categorised into three types (type A, B and C):

Type A: resistant to permeation with at least six test chemicals for at least 30 minutes each (= at least performance level 2)



Type B: resistant to permeation with at least three test chemicals for at least 30 minutes each (= at least performance level 2)



Type C: resistant to permeation with at least one test chemicals for at least 10 minutes each (= at least performance level 1)



Labelling

Each protective glove is tested for physical impermeability (air and water) in accordance with EN 374. They are labelled with two pictograms.

1. protective gloves that protect against bacteria and fungi



2. protective gloves that provide additional protection against viruses:



NOTES

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