TAILOR-MADE PROTECTIVE GLOVES
FOR PROFESSIONALS

Safety

Depuis 1916
BARNIER
www.scapa.com
Barnier celebrates its 100th anniversary and the building of its new factory in Valence.

We are sharing this event with you and offer you a range of activities and exchanges; we would like to thank you for your active participation.

Today is the beginning of a new era!

Building on our experience and knowledge of building craftsmen, we are offering an innovative new range of HAND PROTECTION products. INDIVIDUAL protection is a major challenge, since the range of protective products for the building trade in France is still quite limited. We have now designed a TAILOR-MADE range that meets the needs of every trade, in the required quality.

We have developed attractive and simplified merchandising:

- It rests on the outstanding reputation of our brand, on its clearly recognisable features, and on the fact that product names and applications are easy to understand, making selection very easy.

- It enables us to offer you two tailor-made set-ups of one or two-metre size, including fast-moving products and designs that are unique in the marketplace. This dual presentation facility, on stands, and in printed boxes, provides for a bright new display of the range and great flexibility of the set-up.

- The set-up also includes a unique tool: a sensory digital tablet. Your customer only has to place his hand on the tablet screen to determine the size he needs. A very flexible menu makes it possible to call-up all the technical information about the gloves shown. Robust and secure, this new tool really will become the feature in your range of free-of-charge services!

Choosing Barnier Safety means: you can order all your adhesive tape and glove requirements from a single supplier, and you will also benefit from the availability and the know-how of our internal and external sales teams; you can also rely on the availability of products ex-stock from Valence, so you will benefit from carton-packaged supplies.

Major names in professional distribution have already opted for Barnier Safety. This clearly demonstrates the need for a specialist operator able to offer a tailor-made range.

You can discover this new range in the document we are now sending to you; all members of our team are at your service and look forward to hearing from you.
BARNIER Safety, A multi-merchandising set-up, complete and innovative!

SIMPPLICITY AND FLEXIBILITY
SET-UP OPTIONS

The dual merchandising option, either carton-packed or pin-mounted, making ordering and restocking easy.

The shelf space designs are functional, ensure innovative, tailor-made use. The focus is on the needs of the end user.

Easy-to-read packaging
Gloves are marked with functional information and colour-coded; an application photo illustrates the facing. On the reverse you will find technical information - usage, sizes/applications, climatic conditions, and conditions of use.

The range of BARNIER® protective gloves comes with expertly compiled information (uses, contexts, application, size guides, method of use, demonstration videos) to assist professional users.

SHELF SPACE & POS :
A SET-UP READY-FOR-USE

Guide de taille

POUR VÉRIFIER VOTRE TAILLE

Placez votre main droite sur le schéma de main, la ligne verte devrait être entre votre pouce et votre index.

10/XXL
9/XL
8/L
7/S

Main (mm)                    Gant circonférence     Long.      Long. Mini de paume
8/XL  203   182    240
9/ 229   192    250
10  254   204    260

Voici toutes les informations dont vous avez besoin pour faire le bon choix.
**Size guide**

All the information you need to make the right choice.

**Norme EN420**
The way the glove adapts to the user is a crucial factor when it comes to the dexterity of the working hand.

If the glove is too small, it restricts the blood supply and decreases the mobility of the hand. On the other hand, a loosely fitting glove will move with the slightest hand movement and makes manipulation very imprecise.

**CONFRMING THE SIZE**
Place your hand right over the hand outline, the green line must be between your thumb and your index finger.

<table>
<thead>
<tr>
<th>Glove size EN420</th>
<th>Hand (mm)</th>
<th>Glove</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Palm circumference</td>
<td>Long.</td>
</tr>
<tr>
<td>8/XL</td>
<td>203</td>
<td>182</td>
</tr>
<tr>
<td>9/</td>
<td>229</td>
<td>192</td>
</tr>
<tr>
<td>10</td>
<td>254</td>
<td>204</td>
</tr>
</tbody>
</table>

**LEATHER**

**DRY**

- Strong
- Provides light impact protection
- Breathable

**APPLICATIONS**

Multiple operations in a dry environment.

**PERFORMANCE LEVELS**

Catégory II glove
Medium risks.

The glove conforms to these standards:
- EN420:2003+A1:2009 (General requirements)
- EN388:2003 (Mechanical risks).

<table>
<thead>
<tr>
<th>Protection</th>
<th>Achieved performance level</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Abrasion resistance</td>
<td>2</td>
<td>Mini 0 - Max 4</td>
</tr>
<tr>
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<td>1</td>
<td>Mini 0 - Max 5</td>
</tr>
<tr>
<td>Tearing Strength</td>
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<td>Mini 0 - Max 4</td>
</tr>
<tr>
<td>Perforation resistance</td>
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</tr>
<tr>
<td>Cutting resistance conform</td>
<td>2(X not tested)</td>
<td>Mini A - Max F</td>
</tr>
<tr>
<td>to ISO 13997</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Reference</th>
<th>Quantity/carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>176578</td>
<td>90 pairs</td>
</tr>
</tbody>
</table>
**CARPENTER**

**DRY CLEANABLE**
- Strong
- 3 free fingers
- Offers limited cutting resistance

![Image of Carpenter glove]

**APPLICATION**
Multiple operations in a dry environment with a need for tactility (or touch) at finger level.

Tight fitting glove with artificial leather in the palm area Spandex, Neoprene® and Lycra® on the back of the hand. Length 23 cm.

**PERFORMANCE LEVELS**
Catégorie II glove
Medium risks.

Protection level:
- Abrasion resistance:
  - Achieved performance level: 4
  - Protection level: Mini 0 - Max 4
- Cutting resistance:
  - Achieved performance level: 2
  - Protection level: Mini 0 - Max 5
- Tearing Strength:
  - Achieved performance level: 3
  - Protection level: Mini 0 - Max 4
- Perforation resistance:
  - Achieved performance level: 1
  - Protection level: Mini 0 - Max 4

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<tr>
<td>176575</td>
<td>20 pairs</td>
</tr>
<tr>
<td>176577</td>
<td>20 pairs</td>
</tr>
</tbody>
</table>

**BASIC**

**DRY CLEANABLE**
- Light
- Strong
- Vented finger

![Image of Basic glove]

**APPLICATION**
Tactile handling in oily or damp environments.

Nylon knit glove Polyurethane coated palm area. Length 25 cm.

**PERFORMANCE LEVELS**
Catégorie II glove
Medium risks.

Protection level:
- Abrasion resistance:
  - Achieved performance level: 3
  - Protection level: Mini 0 - Max 4
- Cutting resistance:
  - Achieved performance level: 1
  - Protection level: Mini 0 - Max 5
- Tearing Strength:
  - Achieved performance level: 3
  - Protection level: Mini 0 - Max 4
- Perforation resistance:
  - Achieved performance level: 1
  - Protection level: Mini 0 - Max 4

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<tr>
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<tbody>
<tr>
<td>176581</td>
<td>120 pairs (12 sachets of 10 pairs)</td>
</tr>
<tr>
<td>176582</td>
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</table>
**Catégorie II glove**
Medium risks.

Conforms to these standards:
- EN 420:2003+A1:2009 (General requirements)
- EN388:2016 (Mechanical risks).

**APPLICATIONS**
Controlled handling in oily or damp environments

**PERFORMANCE LEVELS**

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**Quantity/carton**
- 176583: 40 pairs
- 176584: 40 pairs

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**GREASE**

**OILY AND DAMP HANDLING**
- Water-proof palm
- Light
- Breathable

**Nylon knit glove.**
Nitrile coated water-proof palm of the hand.
Length 25 cm

**APPLICATIONS**
Controlled handling in oily or damp environments

**PERFORMANCE LEVELS**

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**Quantity/carton**
- 176583: 40 pairs
- 176584: 40 pairs

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**PRECISION**

**GENERAL HANDLING**
- Flexible
- Full protection
- Breathable

**Nylon, Lycra® knit glove.**
The entire hand portion is nitrile foam coated Palm with nitrile pimples.
Length (25 cm)

**APPLICATIONS**
General handling in dry, damp or greasy environments where dexterity and grip are needed.

**PERFORMANCE LEVELS**

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**Quantity/carton**
- 176579: 40 pairs
- 176580: 40 pairs

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**GREASE**

**OILY AND DAMP HANDLING**
- Water-proof palm
- Light
- Breathable

**Nylon knit glove.**
Nitrile coated water-proof palm of the hand.
Length 25 cm

**APPLICATIONS**
Controlled handling in oily or damp environments

**PERFORMANCE LEVELS**

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**Quantity/carton**
- 176583: 40 pairs
- 176584: 40 pairs
**SLIP-RESISTANT**

**DAMP HANDLING**
- Good grip in damp environment
- Ventilated back
- Strong

**APPLICATIONS**
Medium or heavy handling in dry or damp environments.

**PERFORMANCE LEVELS**
- Catégorie II glove
- Medium risks.
- Conforms to these standards:
  - EN420:2003+A1:2009 (General requirements)
  - EN388:2016 (Mechanical risks).
- **Nylon and cotton knit glove**
  - Latex® coated water proof palm.
  - Length 25 cm

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**Quantity/carton**
- 176588: 90 pairs
- 176589: 90 pairs

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**RESISTANT+**

**MANUTENTION HUILEUSE ET HUMIDE**
- Good grip in damp environment
- Full hand protection
- Durable

**APPLICATIONS**
Medium or heavy handling, oily or damp environments.

**PERFORMANCE LEVELS**
- Catégorie II glove
- Medium risks.
- Conforms to these standards:
  - EN420:2003+A1:2009 (General requirements)
  - EN388:2003 (Mechanical risks).
- **Nylon, Lycra® knit glove**
  - Double thickness PVC HPT coating across entire hand.
  - Length 25 cm

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<td>Perforation resistance</td>
<td>1</td>
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</table>

**Quantity/carton**
- 176585: 40 pairs
- 176586: 40 pairs
- 176587: 40 pairs

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**COLD PROTECTION**

**MULTI-USE, COLD**
- Flexible down to -30°
- Good grip in a damp environment
- Durable

9/L 10/XL

Nylon, Lycra® knit glove
Double acrylic Double thickness
PVC HPT coating, entire hand.
Length 25 cm.

**APPLICATIONS**
Medium or heavy handling,
in dry and damp environments
Ideal for outdoor work in winter.

**PERFORMANCE LEVELS**

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<td>Cutting resistance</td>
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<td>4</td>
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<tr>
<td>Tearing Strength</td>
<td>4</td>
<td>2</td>
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<tr>
<td>Perforation resistance</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Cold convection resistance</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Cold water contact resistance</td>
<td>3</td>
<td>0 or 1</td>
</tr>
<tr>
<td>Water resistance</td>
<td>0</td>
<td></td>
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<tr>
<td>Water resistance</td>
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</table>

**CUT-RESISTANT**

**CUT PROTECTION**
- Reinforced between fingers
- Precision
- Flexibility

9/L 10/XL

Knitted glove in HPPE, glass fibre,
Nylon, Lycra® Nitrile foam coated palm area.
Nitrile reinforcement between thumb and index finger.
Length 25 cm.

**APPLICATIONS**
Handling of sharp objects in dry or moderately greasy environment.

**PERFORMANCE LEVELS**

<table>
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<tbody>
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<td>Tearing Strength</td>
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<td>Water resistance</td>
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</table>

**Reference | Quantity/carton**
--- | ---
176590 | 30 pairs
176594 | 30 pairs

**Reference | Quantity/carton**
--- | ---
176590 | 30 pairs
176594 | 30 pairs
**CUT-RESISTANT +**

**VERY HIGH CUT PROTECTION**
- High-visibility colour
- Strong

**APPLICATIONS**
Handling very sharp items in dry or moderately greasy environments.

**PERFORMANCE LEVELS**
<table>
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</tr>
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<td>Perforation</td>
<td>3</td>
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</table>

**Reference**
- 176595: 30 pairs
- 176596: 30 pairs

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**SINGLE USE**

**PROTECTION LIGHT CHEMICAL**
- Strong
- Second skin feel
- Fine and light

**APPLICATIONS**
Handling liquids or low aggressive chemicals for short periods (5 min max.).

**PERFORMANCE LEVELS**

**Protection**

**Reference**
- 176597: 40 boxes
- 176598: 20 gloves/carton
TILING WORK

- Light and fine
- Flexible
- Comfortable

Cotton support glove, completely latex-lined. Thickness 0.7 mm. Length: (30 cm).

APPLICATIONS
Handling of tiles and other delicate handling operations in a moderately damp environment.

PERFORMANCE LEVELS

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Reference: 176601 - 30 pairs  
Reference: 176602 - 30 pairs
European Council Directive 89/686/EEC on PPE has been repealed and replaced with the new Regulation (EU) 2016/425 on PPE. The new Regulation, which introduces updates of several standards, is in particular the standards EN388 and EN374, was published in the Official Journal of the European Union on 31 March 2016 and will apply from 21 April 2018. Our gloves - new and existing - may not be commercially sold or certified as being in conformity with the new Regulation before 21 April 2018. The Certificates of Conformity in accordance with the Directive in our possession are and will remain valid until 21 April 2023.

**EUROPEAN PPE STANDARDS**

**CE CATEGOTY**

**European Directive 89/686/CE**

**CATEGORY I** Minimal risks.
**CATEGORY II** Medium risks (injury), certified for conformity by a notified body.
**CATEGORY III** Irreversible (corrosion) risks, certified and tested for conformity by a notified body, the number of which shall be stated.

**EN 420**

**General requirements**

- Technical information*
- Marking of gloves
- Sizes
- Dexterity level (1 to 5)
- Harmlessness of glove

* Printed on the packaging or in the leaflet supplied with BARNIER Safety gloves.

**EN ISO 374: 2016**

The standard specifies the requirements for protective gloves intended to protect the user against risk of penetration, permeability or degradation by chemical products and micro-organisms. In accordance with the level of protection offered, the gloves are classified as one of three types (A, B and C).

**EN 374-2: 2014**

Penetration resistance

The gloves must satisfy the air and water leak-tightness tests, and must meet the defined AQL inspection level. The air-tightness test consists in inflating the glove to a certain pressure for the detection of perforations. The water-tightness test consists in filling the glove with water and checking, after a defined period of time, whether droplets of water appear on the surface of the glove. The AQL (acceptable quality level) is a measure for quality assurance based on a random sampling procedure in accordance with ISO 2959-1 used by manufacturers to estimate the probability of perforation occurring in a glove batch.

An AQL value of 1.5 defines a statistical probability of less than 1.5% of defective gloves in a given batch.

<table>
<thead>
<tr>
<th>Performance level</th>
<th>Acceptable quality level</th>
<th>Inspection level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 3</td>
<td>&lt; 0.65</td>
<td>G1</td>
</tr>
<tr>
<td>Level 2</td>
<td>&lt; 1.5</td>
<td>G1</td>
</tr>
<tr>
<td>Level 1</td>
<td>&lt; 4.0</td>
<td>S4</td>
</tr>
</tbody>
</table>

**EN 16523-1: 2015** (replaces EN 374-3)

Resistence to permeation by chemical products

Test method for measurement of the resistance of PPE material to permeation by dangerous chemical products at molecular level and in continuous contact. The value obtained corresponds to the time elapsed when the time elapsed needed for a liquid or a dangerous gas to come into contact with the skin. The glove is rated in accordance with the elapsed time, the performance level ranging from 1 to 6.

The standard defines a list of 18 chemical products. The minimum elapsed time for a type A glove is 30 minutes (Level 2) for six chemical products, for a type B glove is 30 minutes for at least 3 chemical products, and for a type C glove is 10 minutes (level 1) for at least 1 chemical product from the list.

**EN 16523-2: 2015**

Resistance to degradation by chemical products

Degradation is a deleterious change to one or several of the physical glove protection characteristics due to contact with a chemical product. Signs of degradation may be loss of adhesion, hardening, softening, dimensional changes, loss of strength, etc. This resistance to degradation is expressed as a percentage of change in the resistance to perforation of the glove material after continuous contact of one hour between the outer surface with the chemical agent used during the test. The results during the degradation resistance tests must be given in the information leaflet covering the three glove types.

**EN 374-5-2016**

Protection against micro-organisms

Micro-organisms are defined by the standards for bacteria, fungi and viruses. In order to be treated as resistant to bacterial or fungal attack, the glove must have successfully passed the conforming penetration resistance test pursuant to acc. to the Standard EN 374-2:2014.

If the glove successfully passes the test acc. to standard ISO 16604: 2004 (Method B), it shall also be considered to be virus-resistant, and the term “VIRUS” shall be added to the pictogram indicating biological risks.

**EN 511**

Levels of testing the performance of the glove for the following risks :
- Climatic cold or cold industrially transmitted by convection (0 to 4).
- Climatic cold or cold industrially transmitted by contact (0 to 4).
- Water impermeability

If the glove is marked with this symbol, this indicates that it has been awarded a performance index (in the order from left to right) for climatic or industrial cold transmitted by convection, climatic or industrial cold transmitted by contact, water impermeability.
- 0 = indicates the level 1 has not been reached during the test.
- X = indicates that the test has not been carried out or was not possible.

**EN 407**

Levels of testing the performance of the glove for the following risks :
- Resistance to ignition (0 to 4).
- Resistance to contact heat (0 to 4).
- Resistance to convected heat (0 to 3).
- Resistance to radiated heat (0 to 4).
- Resistance to small metal projectiles undergoing fusion (0 or 1).
- Resistance to large metal projectiles undergoing fusion (0 or 1).

« X » indicates that the test has not been carried out was not possible.

For type A and B, the pictogram «resistant to chemical products» must contain a Code made up of letters for identification of the chemical products tested. Marking for type C gloves does not mention any identification letter.

**List of chemical products**

<table>
<thead>
<tr>
<th>Letter code</th>
<th>Chemical product</th>
<th>CAS number</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Méthanol</td>
<td>67-56-1</td>
<td>Primary alcohol</td>
</tr>
<tr>
<td>B</td>
<td>Acetone</td>
<td>6764-1</td>
<td>Ketone</td>
</tr>
<tr>
<td>C</td>
<td>Acetonitrile</td>
<td>75-05-8</td>
<td>Nitrile</td>
</tr>
<tr>
<td>D</td>
<td>Dichlorométhane</td>
<td>75-09-2</td>
<td>Chlorinated hydrocarbon</td>
</tr>
<tr>
<td>E</td>
<td>Carbon disulphide</td>
<td>75-15-0</td>
<td>Organic compound containing sulphur</td>
</tr>
<tr>
<td>F</td>
<td>Toluene</td>
<td>108-88-3</td>
<td>Aromatic hydrocarbon</td>
</tr>
<tr>
<td>G</td>
<td>Diethylyamine</td>
<td>109-89-7</td>
<td>Amine</td>
</tr>
<tr>
<td>H</td>
<td>Tetrahydrolurane</td>
<td>109-99-9</td>
<td>Heterocyclic ether</td>
</tr>
<tr>
<td>I</td>
<td>Ethyl acetate</td>
<td>141-78-6</td>
<td>Ether</td>
</tr>
<tr>
<td>J</td>
<td>n-Heptane</td>
<td>142-85-2</td>
<td>Saturated hydrocarbon</td>
</tr>
<tr>
<td>K</td>
<td>Caustic soda 40%</td>
<td>1310-73-2</td>
<td>Inorganic base</td>
</tr>
<tr>
<td>L</td>
<td>Sulphuric acid 96%</td>
<td>7684-93-9</td>
<td>Inorganic acid</td>
</tr>
<tr>
<td>M</td>
<td>Nitric acid 65%</td>
<td>7697-37-2</td>
<td>Inorganic acid, oxidant</td>
</tr>
<tr>
<td>N</td>
<td>Acetic acid 99%</td>
<td>64-19-7</td>
<td>Organic acid</td>
</tr>
<tr>
<td>O</td>
<td>Ammonia 25%</td>
<td>1336-21-6</td>
<td>Organic base</td>
</tr>
<tr>
<td>P</td>
<td>Hydrogen peroxide 30%</td>
<td>7722-84-1</td>
<td>Peroxide</td>
</tr>
<tr>
<td>S</td>
<td>Hydrofluoroc acid 40%</td>
<td>7684-39-3</td>
<td>Inorganic acid T</td>
</tr>
<tr>
<td>T</td>
<td>Formaldehyde 37%</td>
<td>50-00-0</td>
<td>Aldehyde</td>
</tr>
</tbody>
</table>

**List of chemical products :**

- A for at least 1 chemical product
- B for at least 3 chemical products
- C for at least 6 chemical products

**Letter code**

- A: Méthanol
- B: Acetone
- C: Acetonitrile
- D: Dichlorométhane
- E: Carbon disulphide
- F: Toluene
- G: Diethylyamine
- H: Tetrahydrolurane
- I: Ethyl acetate
- J: n-Heptane
- K: Caustic soda 40%
- L: Sulphuric acid 96%
- M: Nitric acid 65%
- N: Acetic acid 99%
- O: Ammonia 25%
- P: Hydrogen peroxide 30%
- S: Hydrofluoroc acid 40%
- T: Formaldehyde 37%

**CAS number**

- 67-56-1
- 6764-1
- 75-05-8
- 75-09-2
- 75-15-0
- 108-88-3
- 109-89-7
- 109-99-9
- 141-78-6
- 142-85-2
- 1310-73-2
- 7684-93-9
- 7697-37-2
- 64-19-7
- 1336-21-6
- 7722-84-1
- 7684-39-3
- 50-00-0

**Class**

- Primary alcohol
- Ketone
- Nitrile
- Chlorinated hydrocarbon
- Organic compound containing sulphur
- Aromatic hydrocarbon
- Amine
- Heterocyclic ether
- Ether
- Saturated hydrocarbon
- Inorganic base
- Inorganic acid
- Oxidant
- Organic acid
- Organic base
- Peroxide
- Inorganic acid T
- Aldehyde
Revision of standard EN 388:2003

The standard EN388 has been undergoing revision during 2016. The SHOWA gloves are in the course of being certified by the notified bodies for conformity to the revised standard. The cutting resistance values to ISO 13997 serve as pointers for the time being, until official certification. In the meantime, the certificates issued in accordance with the standard EN 388:2003 remain valid.

a) ABRASION RESISTANCE (0-4)
Number of cycles needed for piercing by abrasion by means of abrasive paper of a circular sample of the material under pressure at constant speed.

b) SHEET BLADE CUT PROTECTION BY COUP TEST (0-5)
Number of cycles needed to break through a sample with the aid of a circular stainless steel blade and with a force of 5 Newtons (ca. 510 g). For materials that blunt the blade, after a certain number of cycles without cutting, the ISO 13997 test shall be deemed performed and becomes the reference cutting resistance value.

c) TEAR RESISTANCE (0-4)
Force needed to tear a rectangular sample of the glove from the initial incision, with a maximum force of 75 Newtons (ca. 7.6 kg).

d) PUNCTURE RESISTANCE (0-4)
Force required to puncture a sample with the aid of a steel point of standard size with constant speed of 10 cm/min.

e) BLADE CUT PROTECTION TEST TO ISO (A-F)
Force in Newton (N) needed to cut a sample with the aid of a rectangular blade using a specific cutting machine such as a tomodynamometer (TDM). This is an optional test, without the blade being blunted during the cutting test, after which it becomes the reference in terms of cutting resistance. A value in the form of a letter is then applied as follows:

<table>
<thead>
<tr>
<th>Protection level</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Force in Newtons</td>
<td>&gt;2</td>
<td>15</td>
<td>22</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>Cutting resistance</td>
<td>LOW</td>
<td>MEDIUM</td>
<td>ELEVATED</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

f) IMPACT RESISTANCE (P)
For protective gloves intended to offer impact resistance. Measurement of the dissipation of the force by the protection zone after the impact of a convex anvil with an energy of 5 joules. The tests are conducted in the manner of the impact protection test for the protective motorcyclist glove pursuant to EN 135944:2015. The letter “P” shall be applied in the event of a successful test, unless another reference is applied to it in the event of failure.

Level X may also be applied in the cases “a” to “f” below, which indicates "not tested".

<table>
<thead>
<tr>
<th>Protection level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion resistance</td>
<td>&gt;100</td>
<td>500</td>
<td>2000</td>
<td>8000</td>
<td>-</td>
</tr>
<tr>
<td>Cutting resistance, by cutting test</td>
<td>&gt;1.2</td>
<td>&gt;2.5</td>
<td>&gt;5</td>
<td>&gt;10</td>
<td>&gt;20</td>
</tr>
<tr>
<td>Tear resistance (force in Newtons)</td>
<td>&gt;10</td>
<td>&gt;25</td>
<td>&gt;50</td>
<td>&gt;75</td>
<td>-</td>
</tr>
<tr>
<td>Perforation resistance (force in Newtons)</td>
<td>&gt;20</td>
<td>&gt;60</td>
<td>&gt;100</td>
<td>&gt;150</td>
<td>-</td>
</tr>
</tbody>
</table>

These apply to materials and objects which, in finished condition, are intended to come into, or are in contact with foodstuffs or water intended for human consumption. According to Regulation 1935/2004: “Materials and articles shall be manufactured in compliance with good manufacturing practice so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities which could:

• endanger human health,
• bring about an unacceptable change in the composition of the food or bring about a deterioration in the organoleptic characteristics thereof.”

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