Mapa Professional is committed to offering companies innovative solutions for protecting the hands which meet users’ needs.

Our brand is involved in the health and safety of users at their workplace.

Our offer meets requirements for comfort and protection for most risks in the professional environment.

HOW TO READ THIS CATALOGUE?

Step 1: Identify your protection needs

Define the type of gloves that best meets your needs in terms of:
- usage (performance, comfort, environment, wearing time),
- the environment and the risks involved.

Step 2: Define the type of glove

Step 3: Select the most appropriate reference

Select the most appropriate product to meet your needs with the help of the main technical characteristics table.

How to read the pictograms?

- MANUFACTURE: Fitting, Assembling a part (paint spraying, handling chemical compounds), manufacturing composites, handling chemical drums
- AERONAUTICS: Work with composite materials (resins)
- TRANSPORT: Maintenance of transport routes (rail, automobile, maritime, air)
- HEALTH: Pharmaceutical preparation, Medical manufacturing, Research, Hospitals and clinics
- FOOD AND DRINK INDUSTRY: Food handling and preparations
- CONSTRUCTION INDUSTRY: Handling construction materials, glazing
- MARITIME: Cultivation of fishing products
- AGRICULTURE: Handling of diluted and concentrated pesticides, Re-entry tasks
- ENERGY: Nuclear, wind turbine, petrochemical industries
- CLEANING: Handling of detergents, Industrial cleaning, Small general maintenance jobs
**EUROPEAN LEGISLATION AND STANDARDS**

**Regulation (EU) 2016/425**

**Why a PPE regulation?**

Protective gloves are PPE (Personal Protective Equipment) and must comply with the European Regulation 2016/425 in order to freely circulate within the European Union. The regulation 2016/425 contains the requirements that PPE must protect up to the required levels without compromising the user’s health. Harmonized European standards (EN 388, EN ISO 374-1) are used in the certification process to assess conformity of the product to the requirements of the PPE Regulation for the risks for which the product is intended to protect.

The manufacturer must indicate the conformity of the product by CE marking it, he must also provide a EU declaration of conformity.

**PPE Regulation (EU) 2016/425**

This European regulation was implemented on 21 April 2018. It replaced the European Directive 89/686/EEC, which was withdrawn at this same date.

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**How to read the standards?**

The following pictograms, can help you understand the performance characteristics of a glove:

- **MECHANICAL PROTECTION**
- **CHEMICAL & MICRO-ORGANISMS PROTECTION**
- **OTHERS**
- **THERMAL PROTECTION**
- **COLD HAZARD**
- **HEAT AND FIRE**

**Letter Code**

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<thead>
<tr>
<th>Code</th>
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<td>K</td>
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<td>Q</td>
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*The test does not apply or the glove has not been tested.*
**Standards informations**

**PROTECTION AGAINST PESTICIDES**

**ISO 18889: 2019 STANDARD**
Protective gloves for pesticide operators and re-entry workers

**BACKGROUND**
Workers in farm & agriculture sectors are frequently exposed to numerous pesticides hazardous to health. These chemicals should be handled with precautions.

Hand protection is fundamental as our hands are the main route of contamination. Gloves are necessary to protect against risks while maintaining comfort, ease of movement and dexterity.

This standard establishes minimum performance, classification, and labelling requirements for gloves worn by operators handling pesticide products and re-entry workers.

**GLOVE CLASSIFICATION**
Protective gloves are classified into 2 categories:

**WHOLE HAND PROTECTION GLOVE**
- G1 gloves
  - ISO 18889: Handling diluted pesticides
  - No mechanical risk
  - ISO 18889
  - Handling concentrated pesticides
  - Minimum mechanical resistance requirement
- G2 gloves
  - ISO 18889

**PARTIAL HAND PROTECTION GLOVE**
- (fingertips and palm-side)
- GR gloves
- ISO 18889

Re-entry worker who is in contact with dry and partially dry pesticide residues that remain on the plant after pesticide application. Mechanical properties that are required for several re-entry tasks.

Breathable material in the back of the hand provides comfort.

**DISPOSABLE GLOVES**
- Chemical gloves
- High dexterity mechanical gloves

**STRICT LIMITS**
- No more minimum length required.
- Issue with flame test with leather gloves.

**EN ISO 21420**
This updated standard newly specifies the general requirements and test methods for glove design and construction, safety, comfort and performance, as well as marking and information provided by the manufacturer applicable to all protective gloves. The new EN ISO 21420 additionally applies to:
- mittens
- pot holders
- arm protectors

**NEW ELECTROSTATIC PROPERTIES**
- Limited content of Polycyclic Aromatic Hydrocarbons (PAHs)
- For ATEX area new pictogram
- Electrostatic properties shall be tested according to the EN 16350 standard (test method EN149-2)

**NEW GLOVE SIZING**
- Sizes of gloves are defined with respect to the sizes of the hands they are to fit

**NEW GLOVE MARKING**
- Manufacturing date at least the month and year
- If applicable, obsolescence date behind the pictogram

**INNOVATIONS**
- Limited content of Dimethylformamide (DMF) in polyurethane (PU) gloves: it shall not exceed 1,000 mg/kg
- Limited content of Polycyclic Aromatic Hydrocarbons (PAHs): In plastic materials, it shall not exceed 1 mg/kg

**ESD : MAPA PROFESSIONAL POSITION**
Working in ATEX zones or handling electronic devices, both areas have the same need for suitable gloves: they must be dissipative.

As there is no standard for ESD gloves, at MAPA PROFESSIONAL we decided to refer to the EN 16350 (ATEX gloves). This standard is very strict, so a glove complying to EN 16350 will be suitable for handling electronic devices.

**ESD REQUIREMENTS**
- Vertical resistance:<10*8 Ω at 25% relative humidity
- Test must be performed on 5 samples which must all pass the limit of vertical resistance
- EN 1149-2 Introduced in EN ISO 21420: 2020
- EN 16350

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- For ATEX area new pictogram
- The electrostatic properties shall be tested according to the EN 16350 standard (test method EN149-2)

**NEW GLOVE SIZING**
- No more minimum length required

**NEW GLOVE MARKING**
- For a better manufacturing batch traceability, gloves that shall be marked with:
- Manufacturing date at least the month and year
- If applicable, obsolescence date behind the pictogram

**INSTRUCTIONS OF USE**
- Donning, doffing & glove adjustment instructions
- Comfort & hygiene
- Protection from contamination
- Natural rubber content warning
- No more mandatory* on substances that can cause allergies (other than rubber)

*on request
UNDERSTAND THE SPECIAL FEATURES OF A GLOVE TO IMPROVE CHOICE

Different cuff edging
Depending on your use

Safety cuff
Wrist protection, quick glove removal and good ventilation of the hand. Perfect for jobs with a risk of entanglement.

Knitted cuff
Fits to the hand well and protects the wrist.

Straight cuff
Better ventilation of the hand

Rolled cuff
Increased resistance to tearing when putting gloves on

Scalloped cut
Increased service life of the glove

Shapes, sizes and thicknesses

Glove length
They must be chosen in accordance with the risks associated with the handling circumstances, to give more or less protection to the forearm. They generally vary between 22 and 60 cm.

Glove size
This depends on the circumference of the user’s palm, and varies from size 5 to 12. This affects usage comfort.

Glove thickness
This influences the user’s dexterity and the performance of the glove. Varies between 0.1 and 2.5 mm.

Anatomical or ambidextrous gloves

Anatomical gloves
A glove is called anatomical when there is one shape for the left hand and another for the right.

Ambidextrous gloves
Ambidextrous gloves can be worn equally well on either hand; this is mainly the case for thinner gloves.

A number of external finishes according to your needs

Smooth
Does not mark the handled objects

Non-slip embossing
Excellent grip in oily environments

Pebbled
Good grip and minimal glove fouling

Reinforced grip
Excellent grip in wet environment

Dot embossing
Improved thermal insulation

The different types of internal finish

Powdered
Makes it easier to put gloves on and take them off, without having to increase the thickness of the glove.

Chlorinated/Easy donning treatment
Makes it easier to put the gloves on and take them off without increasing the thickness and without using powder. Reduces the allergy risk of natural latex gloves.

Flocked
Cotton-based textile fibres, covering the inside of the gloves. Fleeced feel comparable with that of a fine carpet. Good absorption of perspiration.

Textile support
Knitted interior, made from cotton or synthetic materials for increased comfort or specific performance. MAPA has developed an exclusive technology for manufacturing a glove with textile support. This improves comfort for the user. Use the «Ultracomfort» pictogram to locate this technology.

The different textile types:
Cotton
Comfort, thermal insulation and absorption of perspiration.

Polyamide
Optimised dexterity (fine, seamless).

Para-aramid
Cutting and heat resistance.

High density polyethylene
Cut-resistance and optimised dexterity.

MAPA TECHNOLOGIES
(SEE NEXT PAGE)

Excellent grip in oily environments combined with liquidproof protection

Comfort and allows hand to breathe without compromising durability

(SEE NEXT PAGE)
Understanding the special features of a glove to improve choice

Our **GRIP & PROOF** coating technology has the following benefits for users handling greasy or oily parts:

- **SKIN PROTECTION**
  - Sealed at strategic points
  - Protects from often highly irritant oils
  - Reduces the risk eczema and dermatitis

- **GRIP**
  - Excellent grip when handling oily parts with or without a cutting risk
  - Reduction in risk of objects falling
  - Reduction in muscle fatigue and risk of RSI (Repetitive Strain Injury)
  - Ensures better productivity

- **RESISTANCE**
  - Usage prolonged due to a very durable coating
  - Cleanliness increased by sealing
  - Optimisation of expenses

Through its expertise and reliable usage tests, Mapa Professional has designed a range of gloves including the **GRIP & PROOF** technology which combines sealing and grip and reduces the risk of objects falling. This technology can be found in our **ULTRANE** and **KRYTECH** ranges.

New products

Products specially designed to meet chemical, mechanical and cut protection needs.

<table>
<thead>
<tr>
<th>CHEMICAL PROTECTION</th>
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<td><strong>KRYTECH 815</strong></td>
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</tbody>
</table>

*See pages 15, 31, 33, 41, 43*
CHEMICAL PROTECTION

Chemical hazards are not confined to the chemical industry. Many people, in a variety of sectors, are faced with chemical risks when handling products which are aggressive to a greater or lesser extent (oils, acids, solvents, etc.).

More than 100,000 chemical substances are now classified (identified by their CAS number).

In order to meet the wide variety of aggressive situations that exist, Mapa Professional offers a wide range of protective gloves designed using polymers, which behave differently and provide different protection according to the situation.

The results of chemical testing and the different chemical classification indices must not be seen as the only factors when selecting a glove. Actual usage conditions, the contact time with a given chemical, the concentration, the temperature, the usage frequency of a glove and the care conditions can affect glove performance. All of these factors should be taken into account when choosing the right glove.

Refer to our dynamic database, which is constantly updated, and download the chemical resistance tables for our gloves. www.mapa-pro.com

THE MAPA GUIDE: 2 PERFORMANCE INDICATORS

To characterise the performance of the elastomers and plastics used to manufacture safety gloves, tests are carried out to determine the behaviour of these materials when confronted with the various families of chemical products. Mapa Professional takes these different parameters into account to determine the relative performance of the different families of gloves and hence help you make the best possible choice.

SELECT THE MOST APPROPRIATE CHEMICAL GLOVE FOR YOUR NEEDS USING THE THREE STAGES BELOW:

1. Identify which family of chemical products the substance you are handling belongs to

<table>
<thead>
<tr>
<th>YOU ARE HANDLING</th>
<th>CAS</th>
<th>EN374</th>
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<tr>
<td>ALCOHOLS (methanol 100%)</td>
<td>67-56-1</td>
<td>A</td>
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<tr>
<td>KETONE (acetone 100%)</td>
<td>67-64-1</td>
<td>B</td>
</tr>
<tr>
<td>NITRILES (acetonitrile methyl cyanide 99%)</td>
<td>75-05-8</td>
<td>C</td>
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<tr>
<td>CHLORINATED SOLVENTS (methylene chloride/dichloromethane 99%)</td>
<td>75-09-2</td>
<td>D</td>
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<td>SULPHUR-BASED CHEMICALS (carbon disulphide 101%)</td>
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<td>E</td>
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<tr>
<td>AROMATIC SOLVENTS (toluene 100%)</td>
<td>108-88-3</td>
<td>F</td>
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<tr>
<td>AMINES (diethylamine 98%)</td>
<td>109-89-7</td>
<td>G</td>
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<tr>
<td>ETHERS (isopropyl alcohol)</td>
<td>109-99-9</td>
<td>H</td>
</tr>
<tr>
<td>ESTERS (ethyl acetate 99%)</td>
<td>141-78-6</td>
<td>I</td>
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<tr>
<td>ALIPHATIC SOLVENTS (heptane 99%)</td>
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<td>ALKALIS (sodium hydroxide (soda) 40%)</td>
<td>1310-73-2</td>
<td>K</td>
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<td>OXIDISING ACID (sulphuric acid 96%)</td>
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<td>ORGANIC ACID (acetic acid 99%)</td>
<td>64-19-7</td>
<td>N</td>
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<tr>
<td>ORGANIC BASE (ammonia 25%)</td>
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<td>O</td>
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<tr>
<td>HYDROFLUORIC ACID (hydrogen fluoride 40%)</td>
<td>7664-39-3</td>
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</tr>
<tr>
<td>ALDEHYDE (formaldehyde 37%)</td>
<td>50-00-0</td>
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</table>

2. Determine the most appropriate protective material for your specific application.

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<tr>
<th>PVC</th>
<th>NATURAL LATEX</th>
<th>NITRILE</th>
<th>POLYCHLOROPRENE</th>
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3. Choose your gloves according to the level of protection you require.

Mapa Professional Catalogue - mapa-pro.com

CHEMICAL PROTECTION

1. PERMEATION TIMES

The permeation time for a given chemical product, i.e., the time taken for the chemical to penetrate the glove, at a molecular level; in some cases, there is no visible deterioration of the glove.

2. DEGRADATION INDEX

The degradation index of the glove in contact with a given chemical, the concentration, the temperature, the usage frequency of a glove and the care conditions can affect glove performance. All of these factors should be taken into account when choosing the right glove.

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2. DEGRADATION INDEX

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HOW CAN YOU REFINE YOUR CHOICE?

1 RISK
Combination between contact time and the aggressiveness of the chemical being handled.
Choose the performance of your gloves based on the type of risk:
- Splashes: Chemical substances diluted by immersion or splashes of aggressive substances
- Frequent contact: Pure or mixed chemical substances in frequent contact
- Prolonged contact (or immersion): Pure or mixed chemical substances in frequent contact

2 WEAR TIME
Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).
- Short wear: Chlorinated interior finish
- Intermittent wear: Flocked interior finish
- Continuous wear: Fabric-lined interior finish
- Ultra-comfort wear: MAPA exclusive technology providing greater flexibility

MATERIAL

- PVC
- Latex mix
- Natural latex

CHEMICAL PROTECTION
TELSON - VITAL RANGE

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- Short wear: Chlorinated interior finish
- Intermittent wear: Flocked interior finish
- Continuous wear: Fabric-lined interior finish
- Ultra-comfort wear: MAPA exclusive technology providing greater flexibility

MATERIAL

- PVC
- Latex mix
- Natural latex

CHEMICAL PROTECTION
TELSON - VITAL RANGE
**CHEMICAL PROTECTION**

**JERSETTE - ALTO RANGE**

**HOW CAN YOU REFINE YOUR CHOICE?**

1. **RISK**
   Combination between contact time and the aggressiveness of the chemical being handled.
   Choose the performance of your gloves based on the type of risk:
   - **splashes**
     Chemical substances diluted by immersion or splashes of aggressive substances
   - **frequent contact**
     Pure or mixed chemical substances in frequent contact
   - **prolonged contact (or immersion)**
     Pure or mixed chemical substances in frequent contact

2. **WEAR TIME**
   Identifies the comfort level required by the operator
   the longer the wear time, the more comfortable the glove needs to be
   (perspiration, flexibility/fatigue).
   - **short wear**
     Chlorinated interior finish
   - **intermittent wear**
     Flocked interior finish
   - **continuous wear**
     Fabric-lined interior finish
   - **ultra-comfort wear**
     MAPA exclusive technology providing greater flexibility

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>LATEX</th>
<th>LATEX MIX</th>
<th>LATEX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>frequent CONTACT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>intermittent WEAR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>continuous WEAR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ALTO 258
- Strong protection against aggressive detergents
- Internal finish: Flocked
- External finish: Non-slip embossing
- Size: 6 7 8 9 10
- Length: 32 cm
- Thickness: 0.60 mm
- CAT: 3
- EN ISO 374-1:2016 TYPE B
- EN ISO 374-5:2016 TYPE B
- EN388:2016 210X
- EN 420 KPS

### ALTO 405
- Precision dexterity in aggressive environments
- Internal finish: Flocked
- External finish: Non-slip embossing
- Size: 6 7 8 9 10
- Length: 33 cm
- Thickness: 0.70 mm
- CAT: 3
- EN ISO 374-1:2016 TYPE B
- EN ISO 374-5:2016 TYPE B
- EN388:2016 210X
- EN 420 KPS

### ALTO 415
- Fine touch for light chemical protection
- Internal finish: Flocked
- External finish: Non-slip embossing
- Size: 6 7 8 9 10
- Length: 32 cm
- Thickness: 0.60 mm
- CAT: 3
- EN ISO 374-1:2016 TYPE B
- EN ISO 374-5:2016 TYPE B
- EN388:2016 210X
- EN 420 KPS

### JERSETTE 307
- Exceptional comfort and precision dexterity in light aggressive environments
- Internal finish: Textile support
- External finish: Smooth
- Size: 6 7 8 9 10
- Length: 31 cm
- Thickness: 0.75 mm
- CAT: 3
- EN ISO 374-1:2016 TYPE B
- EN ISO 374-5:2016 TYPE B
- EN388:2016 X1XXXX
- EN407 KPT

### JERSETTE 300
- Maximum comfort for long-term work in aggressive environments
- Internal finish: Textile support
- External finish: Smooth
- Size: 6 7 8 9 10
- Length: 29-33 cm
- Thickness: 1.15 mm
- CAT: 3
- EN ISO 374-1:2016 TYPE B
- EN ISO 374-5:2016 TYPE B
- EN388:2016 X1XXXX
- EN407 KPT

### JERSETTE 301
- Internal finish: Textile support
- External finish: Smooth
- Size: 6 7 8 9 10
- Length: 29-33 cm
- Thickness: 1.35 mm
- CAT: 3
- EN ISO 374-1:2016 TYPE B
- EN ISO 374-5:2016 TYPE B
- EN388:2016 X1XXXX
- EN407 KPT

---

**EN ISO 374-5:2016**

**EN388:2016**

**KPS**

**EN 420**

**MAPA professional Catalogue - mapa-pro.com**
RISK
Combination between contact time and the aggressiveness of the chemical being handled.
Choose the performance of your gloves based on the type of risk:
- **splashes**
  - Chemical substances diluted by immersion or splashes of aggressive substances
- **frequent contact**
  - Pure or mixed chemical substances in frequent contact
- **prolonged contact** (or immersion)
  - Pure or mixed chemical substances in frequent contact

HOW CAN YOU REFINE YOUR CHOICE?

1. **WEAR TIME**
   Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue):
   - **short wear**
     Chlorinated interior finish
   - **intermittent wear**
     Flocked interior finish
   - **continuous wear**
     Fabric-lined interior finish
   - **ultra-comfort wear**
     MAPA exclusive technology providing greater flexibility

2. **WEAR TIME**
   Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue):
   - **short wear**
     Chlorinated interior finish
   - **intermittent wear**
     Flocked interior finish
   - **continuous wear**
     Fabric-lined interior finish
   - **ultra-comfort wear**
     MAPA exclusive technology providing greater flexibility

### MATERIAL
**LATEX**

<table>
<thead>
<tr>
<th>Frequent Contact</th>
<th>Prolonged Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONTINUOUS WEAR</strong></td>
<td><strong>SHORT WEAR</strong></td>
</tr>
<tr>
<td><strong>HARPON 321</strong></td>
<td><strong>ALTO 298</strong></td>
</tr>
<tr>
<td><strong>Comfort and safety when gripping heavy, rough or slippery objects in highly-aggressive settings</strong></td>
<td><strong>Good mechanical performance for long-lasting chemical protection</strong></td>
</tr>
<tr>
<td><strong>Internal finish</strong> Chlorinated</td>
<td><strong>External finish</strong> Reinforced grip</td>
</tr>
<tr>
<td><strong>Size</strong> 6 7 8 9 10</td>
<td><strong>Thickness</strong> 1.35 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Harpon 321</th>
<th>Harpon 325</th>
<th>Alto 298</th>
<th>Alto 285</th>
<th>Alto 260</th>
<th>Alto 299</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal finish</td>
<td>Chlorinated</td>
<td>Textile support</td>
<td>Reinforced grip</td>
<td>Smooth</td>
<td>Reinforced grip</td>
</tr>
<tr>
<td>Size</td>
<td>8 9 10</td>
<td>Length</td>
<td>42 cm</td>
<td>Thickness</td>
<td>1 mm</td>
</tr>
</tbody>
</table>

*Please note: The images and data provided are for illustrative purposes and may not reflect the actual product details.*
HOW CAN YOU REFINE YOUR CHOICE?

1 RISK
Combination between contact time and the aggressiveness of the chemical being handled.
Choose the performance of your gloves based on the type of risk:
- **splashes**: Chemical substances diluted by immersion or splashes of aggressive substances
- **frequent contact**: Pure or mixed chemical substances in frequent contact
- **prolonged contact** (or immersion): Pure or mixed chemical substances in frequent contact

2 WEAR TIME
Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).
- **short wear**: Chlorinated interior finish
- **intermittent wear**: Flocked interior finish
- **continuous wear**: Fabric-lined interior finish
- **ultra-comfort wear**: MAPA exclusive technology providing greater flexibility

### CHEMICAL PROTECTION
**ULTRANITRIL RANGE**
CHEMICAL PROTECTION
ULTRANEO RANGE

HOW CAN YOU REFINE YOUR CHOICE?

1. RISK
   Combination between contact time and the aggressiveness of the chemical being handled.
   Choose the performance of your gloves based on the type of risk:
   - **splashes**
     Chemical substances diluted by immersion or splashes of aggressive substances
   - **frequent contact**
     Pure or mixed chemical substances in frequent contact
   - **prolonged contact (or immersion)**
     Pure or mixed chemical substances in frequent contact

2. WEAR TIME
   Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).
   - **short wear**
     Chlorinated interior finish
   - **intermittent wear**
     Flocked interior finish
   - **continuous wear**
     Fabric-lined interior finish
   - **ultra-comfort wear**
     MAPA exclusive technology providing greater flexibility

MATERIAL
POLYCHLOROPRENE

<table>
<thead>
<tr>
<th>splashes</th>
<th>frequent contact</th>
<th>prolonged contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>intermittent wear</td>
<td>intermittent wear</td>
<td>continuous wear</td>
</tr>
<tr>
<td>continuous wear</td>
<td>intermittent wear</td>
<td>continuous wear</td>
</tr>
<tr>
<td>short wear</td>
<td>continuous wear</td>
<td>continuous wear</td>
</tr>
</tbody>
</table>

ULTRANEO 401
- Tactile sensitivity for light chemical protection
- Internal finish: Flocked
- External finish: Non-slip embossing
- Size: 7 8 9 10
- Length: 31 cm
- Thickness: 0.55 mm

ULTRANEO 340
- Comfort with light chemical protection
- Internal finish: Textile support
- External finish: Smooth
- Size: 7 8 9 10
- Length: 38 cm
- Thickness: 1.30 mm

ULTRANEO 420
- Suppleness and freedom of movement for standard chemical protection
- Internal finish: Non-slip embossing
- External finish: Smooth
- Size: 6 7 8 9 10
- Length: 31 cm
- Thickness: 0.75 mm

ULTRANEO 341
- Comfort with standard chemical protection
- Internal finish: Textile support
- External finish: Smooth
- Size: 7 8 9 10 11
- Length: 38 cm
- Thickness: 1.45 mm

ULTRANEO 382
- Maximum comfort for standard chemical protection
- Internal finish: Textile support
- External finish: Non-slip embossing
- Size: 6 7 8 9 10
- Length: 35.5 cm
- Thickness: 0.90 mm

ULTRANEO 407
- Ultra-high performance chemical protection
- Internal finish: Chlorinated
- External finish: Non-slip embossing
- Size: 9 10
- Length: 45.5 cm
- Thickness: 0.75 mm

ULTRANEO 339
- Comfort and high chemical protection
- Internal finish: Textile support
- External finish: Pebbled
- Size: 9 10
- Length: 35.5 cm
- Thickness: 1.35 mm
HOW CAN YOU REFINE YOUR CHOICE?

1 RISK
Combination between contact time and the aggressiveness of the chemical being handled.
Choose the performance of your gloves based on the type of risk:
- **splashes**
  Chemical substances diluted by immersion or splashes of aggressive substances
- **frequent contact**
  Pure or mixed chemical substances in frequent contact
- **prolonged contact (or immersion)**
  Pure or mixed chemical substances in frequent contact

2 WEAR TIME
Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).
- **short wear**
  Chlorinated interior finish
- **intermittent wear**
  Flocked interior finish
- **continuous wear**
  Fabric-lined interior finish
- **ultra-comfort wear**
  MAPA exclusive technology providing greater flexibility

---

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>BUTYL</th>
<th>FLUOROELASTOMER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BUTOFLEX 651</strong></td>
<td>Ultimate specific chemical resistance</td>
<td>Internal finish Smooth</td>
</tr>
<tr>
<td>Size</td>
<td>7 8 9 10</td>
<td>Length</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.50 mm</td>
<td>Thickness</td>
</tr>
<tr>
<td>CAT 3</td>
<td>ABCILMNOS</td>
<td>CAT 3</td>
</tr>
<tr>
<td>EN388:2016</td>
<td>ABCILMNOS</td>
<td>EN ISO 374-1:2016</td>
</tr>
<tr>
<td>EN388:2016</td>
<td>ABCILMNOS</td>
<td>EN ISO 374-5:2016</td>
</tr>
</tbody>
</table>

| **BUTOFLEX 650** | Ultimate specific chemical resistance | Internal finish Smooth |
| Size     | 7 8 9 10 11 | Length          | 35 cm |
| Thickness| 1.50 mm     | Thickness       | 1.50 mm |
| CAT 3    | ABCILMNOS     | CAT 3           | ADEFGLJMNO |
| EN388:2016 | ABCILMNOS | EN ISO 374-1:2016 | TYPE A |
| EN388:2016 | ABCILMNOS | EN ISO 374-5:2016 | TYPE A |

| **FLUOTECH 468** | Tactile sensitivity with wear indicator | Internal finish Smooth |
| Size     | 8 9 10      | Length          | 30 cm |
| Thickness| 0.50 mm     | Thickness       | 1.50 mm |
| CAT 3    | ABCILMNOS     | CAT 3           | ADEFGLJMNO |
| EN388:2016 | ABCILMNOS | EN ISO 374-1:2016 | TYPE A |
| EN388:2016 | ABCILMNOS | EN ISO 374-5:2016 | TYPE A |

| **FLUOTECH 344** | Comfort and flexibility for extended wear | Internal finish Smooth |
| Size     | 9 10        | Length          | 37 cm |
| Thickness| 1.50 mm     | Thickness       | 1.50 mm |
| CAT 3    | ADEFGLJMNO     | CAT 2           | ABCDEFGIJLMN |
| EN388:2016 | ABCDEFGIJLMN | EN ISO 374-1:2016 | TYPE A |
| EN388:2016 | ABCDEFGIJLMN | EN ISO 374-5:2016 | TYPE A |
CHEMICAL PROTECTION

DISPOSABLE: SOLO RANGE

Mapa Professional offers a range of disposable gloves to meet your needs regardless of your working environment. The use of different polymers optimises the ergonomics and performance of the gloves: flexibility, sturdiness and comfort.

DISPOSABLE GLOVES
There are several advantages of disposable gloves:

- Freedom of movement
- Protection for hands and the products being handled
- Rolled cuff to prevent tearing while ensuring the glove stays in place on the arm

4 ADDITIONAL CRITERIA TO REFINES YOUR CHOICE

1. POLYMERS
   PVC/VINYL
   - Mechanical strength and price
   - Flexibility and comfort
   LATEX
   - Mechanical resistance and resistance to oils
   NITRILE (next page)
   - Mechanical strength and chemical resistance to splashes

2. COMFORT AND FLEXIBILITY
   The various interior finishes (powdered/chlorinated) make it possible to adapt to the type of application and the specific requirements of the wearer.
   POWDERED
   - Better absorption of perspiration
   CHLORINATED
   - Easy donning and no powder on hands.

3. EASY DONNING TREATMENT
   Makes it easier to put on and take off gloves, without increasing the thickness and without using powder.

4. REDUCES THE ALLERGY RISK OF NATURAL LATEX GLOVES.

5. COLOUR
   The use of different colours is a response to the unique demands of certain sectors and it enables visual checks by the assignment of a specific colour to each application.

6. DIMENSIONS
   Choosing the length and thickness of the glove makes it possible to factor in the limitations related to the workstation: dexterity, resistance and forearm protection.

POLYMERS

<table>
<thead>
<tr>
<th>PVC/VINYL</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMFORT</td>
</tr>
<tr>
<td>NON POWDERED</td>
</tr>
<tr>
<td>SOLO 990</td>
</tr>
<tr>
<td>The best value for precise movements</td>
</tr>
</tbody>
</table>

NATURAL LATEX

<table>
<thead>
<tr>
<th>COMFORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>NON POWDERED</td>
</tr>
<tr>
<td>SOLO 998</td>
</tr>
<tr>
<td>Optimal flexibility and dexterity</td>
</tr>
<tr>
<td>SOLO PLUS 995</td>
</tr>
<tr>
<td>Optimal flexibility and dexterity</td>
</tr>
<tr>
<td>SOLO 992</td>
</tr>
<tr>
<td>Optimal flexibility and dexterity</td>
</tr>
</tbody>
</table>

External finish
- Smooth
- Medium with pebbled fingertips

Size
- 6 7 8 9

Length
- 24 cm

Thickness
- 0.08 mm

External finish
- Smooth
- Medium with pebbled fingertips

Size
- 6 7 8 9

Length
- 30 cm

Thickness
- 0.10 mm

External finish
- Smooth
- Medium with pebbled fingertips

Size
- 6 7 8 9

Length
- 24.5 cm

Thickness
- 0.10 mm

External finish
- Smooth
- Medium with pebbled fingertips

Size
- 6 7 8 9

Length
- 24 cm

Thickness
- 0.10 mm

ISO 18889
EN ISO 374-1:2016
TYPE C
VIRUS
EN ISO 374-5:2016
VIRUS
EN ISO 374-5:2016
EN ISO 374-5:2016

Mapa Professional Catalogue - mapa-pro.com
CHEMICAL PROTECTION
DISPOSABLE: SOLO RANGE

MAPA Professional offers a range of disposable gloves to meet your needs regardless of your working environment. The use of different polymers optimises the ergonomics and performance of the gloves: flexibility, sturdiness and comfort.

DISPOSABLE GLOVES
There are several advantages of disposable gloves:
• Freedom of movement
• Protection for hands and the products being handled
• Rolled cuff to prevent tearing while ensuring the glove stays in place on the arm

4 ADDITIONAL CRITERIA TO REFINE YOUR CHOICE

1. **POLYMERS**
   - **SOLO** (previous page)
     - Mechanical strength and price.
   - **SALET** (previous page)
     - Flexibility and comfort.
   - **NITRILE**
     - Mechanical resistance and resistance to oils.
   - **TRIPOLYMER**
     - Flexibility, mechanical strength and chemical resistance to splashes.

2. **COMFORT AND FLEXIBILITY**
   - The various interior finishes (powdered/chlorinated) make it possible to adapt to the type of application and the specific requirements of the wearer.
   - **POWDERED**
     - Better absorption of perspiration.
   - **CHLORINATED**
     - Easy donning and no powder on hands.
   - **EASY DONNING TREATMENT**
     - Makes it easier to put on and take off gloves, without increasing the thickness and without using powder.
     - Reduces the allergy risk of natural latex gloves.

3. **COLOUR**
   - The use of different colours is a response to the unique demands of certain sectors and it enables visual checks by the assignment of a specific colour to each application.

4. **DIMENSIONS**
   - Choosing the length and thickness of the glove makes it possible to factor in the limitations related to the workstation: dexterity, resistance and forearm protection.

### POLYMER

<table>
<thead>
<tr>
<th>POLYMER</th>
<th>NITRILE</th>
<th>TRIPOLYMER</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLO 967</td>
<td>SOLO 996</td>
<td>SOLO 997</td>
</tr>
<tr>
<td>SOLO 977</td>
<td>TRILITRES 994</td>
<td>SOLO 987</td>
</tr>
<tr>
<td>SOLO 999</td>
<td></td>
<td>SOLO 987</td>
</tr>
</tbody>
</table>

**SOLO 967**
Excellent dexterity due to the flexibility and fineness of the material. Available in bag and box (Solo BOX 967)

**SOLO 977**
Ideal protection in chemical industry against splashes

**SOLO 999**
Excellent mechanical resistance, ideal in oily environments

**SOLO 987**
The perfect protection for light handling in oily environments

**SOLO 996**
Excellent mechanical resistance, ideal in oily environments

**TRILITRES 994**
Tripolymer formula for protection against chemical splashes and splatters

Internal finish
- Chlorinated
- Powdered

External finish
- Smooth with pebbled fingertips
- Smooth with pebbled fingertips

Size
- 6 7 8 9

Length
- 24.5 cm

Thickness
- 0.08 mm

**COMFORT**

**CHLORINATED**

**POWDERED**

**CORRECT APPLICATION**

**EN ISO 374-1:2016**

**TYPE B**

**VIRUS**

**KPT**

**EN ISO 374-5:2016**

**JKT**

**EN ISO 18889**

**VIRUS JKT**

**KPT**
MECHANICAL PROTECTION
ULTRANE RANGE

The Mapa Professional Handling Protection range meets requirements for comfort and protection of the hands when carrying out a wide variety of work.

PRECISION WORK
The Ultrane range represents all that is needed for precision work requiring a high-level of dexterity while maintaining a sense of touch when handling small or delicate parts.

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT
Select the glove that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments

2 SERVICE LIFE
The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.
- short service life
- long service life
- high-performance service life

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT
Select the glove that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments

2 SERVICE LIFE
The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.
- short service life
- long service life
- high-performance service life

PRECISION WORK

Environment: dry and relatively clean

ULTRANE 548
- Optimal dexterity and sensitivity for light protection
- Suitable for touch screens

Internal finish: Seamless knitted Textile support
- Gauge 13

External finish: Polyurethane coating on palm and fingers
- Knitted wrist

Size: Ultrane 548 6 7 8 9 10 11
- Ultrane 549 6 7 8 9 10

Length: 22-27 cm

ULTRANE 648
- Optimal dexterity and sensitivity for light protection
- Suitable for touch screens

Internal finish: Seamless knitted Textile support
- Gauge 13

External finish: Polyurethane coating on palm and fingers
- Knitted wrist

Size: Ultrane 648 6 7 8 9 10 11
- Ultrane 649 6 7 8 9 10

Length: 22-28 cm

ULTRANE 524
- Protection of electronic device from ElectroStatic Discharge (ESD)

Internal finish: Seamless textile with conductive fiber
- Gauge 18

External finish: Polyurethane coating on palm and fingers
- Knitted wrist

Size: Ultrane 524 6 7 8 9 10 11
- Length: 22-27 cm
- Washable x1

ULTRANE 551
- Unbeatable for fingertip precision

Internal finish: Seamless knitted Textile support
- Gauge 15

External finish: Polyurethane coating on palm and fingers
- Knitted wrist

Size: Ultrane 551 6 7 8 9 10 11
- Ultrane 550 6 7 8 9 10

Length: 22-27 cm

ULTRANE 510
- Optimal comfort, high level of breathability & durability for precision work

Internal finish: Seamless knitted Textile support
- Gauge 13

External finish: Polyurethane coating with aqueous base on the palm and fingers
- Knitted wrist

Size: Ultrane 510 6 7 8 9 10
- Length: 22-27 cm
- Washable x1
MECHANICAL PROTECTION
ULTRANE RANGE

The Mapa Professional Handling Protection range meets requirements for comfort and protection of the hands when carrying out a wide variety of work.

PRECISION WORK
The Ultrane range represents all that is needed for precision work requiring a high-level of dexterity while maintaining a sense of touch when handling small or delicate parts.

• Ease of movement (Comfort)
• Service life suitable for daily use
• Suitable for different environments (dry, wet, oily, greasy, dirty, etc.)
• Superior performance in slippery settings for certain products

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT
Select the glove that meets your needs according to your working environment:

- dry and relatively clean environments
- oily and very dirty environments

2 SERVICE LIFE
The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.

- short service life
- long service life
- high-performance service life

PRECISION WORK

**ENVIRONMENT**

- dry and relatively clean
- oily and very dirty

**SERVICE LIFE**

<table>
<thead>
<tr>
<th>INTERNAL FINISH</th>
<th>EXTERNAL FINISH</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>WASHABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seamless textile with specific knitting technology patented by MAPA PROFESSIONAL.</td>
<td>Foam nitrile coating with sandy finish on palm and fingers. Knitted wrist.</td>
<td>Size 6 7 8 9 10 11</td>
<td>Length 22-27 cm</td>
<td>Washable x1</td>
</tr>
<tr>
<td>Seamless knitted textile support in composite and HDPE fibres.</td>
<td>Foam nitrile coating with sandy finish on palm and fingers. Knitted wrist.</td>
<td>Size 6 7 8 9 10 11</td>
<td>Length 22-27 cm</td>
<td>Washable x1</td>
</tr>
<tr>
<td>Seamless textile with conductive fiber.</td>
<td>Foam nitrile conductive coating on palm and fingers. Knitted wrist.</td>
<td>Size 6 7 8 9 10 11</td>
<td>Length 22-27 cm</td>
<td>Washable x1</td>
</tr>
<tr>
<td>Seamless knitted textile support.</td>
<td>Nitrile coating on palm and fingers. Knitted wrist.</td>
<td>Size 6 7 8 9 10 11</td>
<td>Length 22-26 cm</td>
<td>Washable</td>
</tr>
<tr>
<td>Seamless knitted textile support.</td>
<td>Double layer coating: Nitrile Smooth - Sandy Nitrile.</td>
<td>Size Ultrane 500</td>
<td>Length 23-28 cm</td>
<td>Washable x3</td>
</tr>
<tr>
<td>Seamless knitted textile support.</td>
<td>Double layer coating: Nitrile Smooth - Sandy Nitrile.</td>
<td>Size Ultrane 525/526</td>
<td>Length 23-28 cm</td>
<td>Washable x3</td>
</tr>
</tbody>
</table>

**INTERNAL FINISH**

- Seamless textile with specific knitting technology patented by MAPA PROFESSIONAL. (Gauge 15)
- Seamless knitted textile support in composite and HDPE fibres (Gauge 15)
- Seamless textile with conductive fiber (Gauge 15)
- Seamless knitted textile support (Gauge 13)
- Seamless knitted textile support (Gauge 13)
- Seamless knitted textile support (Gauge 13)

**EXTERNAL FINISH**

- Foam nitrile coating with sandy finish on palm and fingers. Knitted wrist.
- Foam nitrile conductive coating on palm and fingers. Knitted wrist.
- Nitrile coating on palm and fingers. Knitted wrist.
- Double layer coating: Nitrile Smooth - Sandy Nitrile.
- Double layer coating: Nitrile Smooth - Sandy Nitrile.
- Double layer coating: Nitrile Smooth - Sandy Nitrile.

**SIZE**

- 6 7 8 9 10 11
- 6 7 8 9 10 11
- 6 7 8 9 10 11
- 6 7 8 9 10 11
- 6 7 8 9 10 11
- 6 7 8 9 10 11

**LENGTH**

- 22-27 cm
- 22-27 cm
- 22-27 cm
- 22-27 cm
- 22-27 cm
- 23-28 cm

**WASHABLE**

- x1
- x1
- x1
- x3
- x3
**HEAVY-DUTY WORK**

The TITAN/HARPON range is the shell which protects the hand from heavy objects being handled.

- Easy to fit and remove gloves
- Ease of movement and gripping
- Service life suitable for daily use
- Suitable for different environments (dry, wet, oily, greasy, dirty, etc.)
- Superior performance in slippery settings for certain products

**HOW CAN YOU REFINE YOUR CHOICE?**

1. **ENVIRONMENT**
   - Select the glove that meets your needs according to your working environment:
     - **Dry** and relatively clean environments
     - **Oily** and very dirty environments
     - **Wet** environments

2. **SERVICE LIFE**
   - The service life of a glove for heavy-duty work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.
   - **Short** service life
   - **Long** service life
   - **High-performance** service life

---

**MECHANICAL PROTECTION**

**TITAN RANGE**

<table>
<thead>
<tr>
<th>Inner finish</th>
<th>External finish</th>
<th>Size</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Textile</td>
<td>Full nitrile coating</td>
<td>6 7 8 9</td>
<td>24-26 cm</td>
</tr>
<tr>
<td>Textile support</td>
<td>Scalloped cut</td>
<td>8 9 10</td>
<td>26-29 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inner finish</th>
<th>External finish</th>
<th>Size</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Textile</td>
<td>Full nitrile coating</td>
<td>6 7 8 9</td>
<td>26 cm</td>
</tr>
<tr>
<td>Textile support</td>
<td>Scalloped cut</td>
<td>8 9</td>
<td>31 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inner finish</th>
<th>External finish</th>
<th>Size</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Textile support</td>
<td>Full nitrile coating</td>
<td>3/4</td>
<td>24-31 cm</td>
</tr>
<tr>
<td>Knitted cuff</td>
<td></td>
<td>6 7 8 9</td>
<td>24-27 cm</td>
</tr>
</tbody>
</table>

**CAT 2**

- EN388:2016
- EN407
- EN388:2016
- EN388:2016
- EN388:2016
- EN388:2016
- EN388:2016
MECHANICAL PROTECTION
TITAN - HARPON RANGE

HEAVY-DUTY WORK
The TITAN/HARPON range is the shell which protects the hand from heavy objects being handled.

- Easy to fit and remove gloves
- Ease of movement and gripping
- Service life suitable for daily use
- Suitable for different environments (dry, wet, oily, greasy, dirty, etc.)
- Superior performance in slippery settings for certain products

HOW CAN YOU REFINE YOUR CHOICE?

1. ENVIRONMENT
Select the glove that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments
- wet environments

2. SERVICE LIFE
The service life of a glove for heavy-duty work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.
- short service life
- long service life
- high-performance service life

HEAVY-DUTY WORK

<table>
<thead>
<tr>
<th>TITAN 328</th>
<th>HARPON 319</th>
<th>HARPON 330</th>
<th>TITAN 850</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Internal finish</strong></td>
<td>Seamless knitted textile support</td>
<td>Natural latex anti-slip coating on palm and fingers</td>
<td>Nitrile coating on the palm and fingers</td>
</tr>
<tr>
<td><strong>Gauge</strong></td>
<td>10</td>
<td>13</td>
<td>10</td>
</tr>
<tr>
<td><strong>External finish</strong></td>
<td>Knitted cuff</td>
<td>Embossed, anti-slip texture</td>
<td>Double layer coating: Nitrile Smooth - Sandy Nitrile</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>8 9 10</td>
<td>7 8 9</td>
<td>6 7 8 9 10 11</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>24-27 cm</td>
<td>25-27 cm</td>
<td>25-27 cm</td>
</tr>
</tbody>
</table>

- Flexibility and grip for common handling tasks
- Comfort, reinforced safety and excellent grip in wet environments
- Shock absorption, durability and comfort for heavy handling work

HOW CAN YOU REFINE YOUR CHOICE?

1. ENVIRONMENT
   - dry and relatively clean environments
   - oily and very dirty environments
   - wet environments

2. SERVICE LIFE
   - short service life
   - long service life
   - high-performance service life

Mapa Professional Catalogue - mapa-pro.com
MECHANICAL PROTECTION
KRYTECH RANGE

The Mapa Professional range of cut-protection gloves provides excellent hand comfort and protection specially designed for various types of work involving cut hazards.

**PRECISION WORK**
Select your cut protection gloves according to your specific needs. For precision work, you need gloves that act like a second skin, protecting against cuts but maintaining excellent dexterity.

**IMPORTANT**
Using cut-protection gloves does not guarantee total protection (for instance, when using a motor-operated sharp object). Furthermore, the EN 388 and ISO 13997 test results give no more than an indicative average value, and an on-site study may be recommended to determine the most appropriate type of protection for a workstation. Do not hesitate to contact our technical department for further information.

**HOW CAN YOU REFINE YOUR CHOICE?**

1. **ENVIRONMENT**
   - Select the glove that meets your needs according to your working environment:
     - dry and relatively clean environments
     - oily and very dirty environments
     - wet environments

2. **RISK**
   - The higher the level of performance, the greater the glove’s resistance to the combined effects of the sharpness of the object’s cutting edge and the pressure applied.
     - low risk - ISO B
     - moderate risk - ISO C
     - high risk - ISO D
     - very high risk - ISO E

3. **SERVICE LIFE**
   - The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.
   - short service life
   - long service life
   - high-performance service life

**HOW CAN YOU REFINE YOUR CHOICE?**

1. **ENVIRONMENT**
   - Select the glove that meets your needs according to your working environment:
     - dry environments
     - moderately wet environments
     - very wet environments

2. **RISK**
   - The higher the level of performance, the greater the glove’s resistance to the combined effects of the sharpness of the object’s cutting edge and the pressure applied.
     - low risk - ISO B
     - moderate risk - ISO C
     - high risk - ISO D
     - very high risk - ISO E

3. **SERVICE LIFE**
   - The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.
   - short service life
   - long service life
   - high-performance service life

**KRYTECH 579**
- Moderate protection for very precise handling in reasonably clean environments
- Internal finish: Seamless knitted support manufactured from HDPE fibres, Gauge 13
- External finish: Polyurethane coating on palm and fingers, Knitted wrist
- Size: 6-7, 8-9, 10-11
- Length: 22-27 cm
- Washable: x5

**KRYTECH 584**
- Moderate protection with crotch reinforcement for precise handling in reasonably clean environments
- Internal finish: Seamless knitted support manufactured from HDPE fibres, Gauge 13
- External finish: Polyurethane coating on palm and fingers, Knitted wrist
- Size: 6-7, 8-9, 10-11
- Length: 22-27 cm
- Washable: x5

**KRYTECH 557**
- Moderate protection and durability for precise handling in reasonably clean environments
- Internal finish: Seamless knitted support manufactured from HDPE fibres, Gauge 13
- External finish: Polyurethane coating on palm and fingers, Knitted wrist
- Size: 7-8, 9-10, 11
- Length: 26-31 cm
- Washable: x5

**KRYTECH 558**
- Cutting, grip and dexterity for dry and slightly oily environments
- Internal finish: Seamless knitted support manufactured from HDPE fibres, Gauge 13
- External finish: Double layer coating: Nitrile Smooth - Sandy Nitrile, Knitted wrist
- Size: 7-8, 9-10, 11
- Length: 23-28 cm
- Washable: x1

**KRYTECH 563**
- Cutting, grip and dexterity for dry and slightly oily environments
- Internal finish: Seamless knitted support manufactured from HDPE fibres, Gauge 13
- External finish: Polyurethane coating on palm and fingers, Knitted wrist
- Size: 7-8, 9-10, 11
- Length: 25-27 cm
- Washable: x1

**KRYTECH 588**
- Cutting, grip and dexterity for dry and slightly oily environments
- Internal finish: Seamless knitted support manufactured from HDPE fibres, Gauge 13
- External finish: Double layer coating: Nitrile Smooth - Sandy Nitrile, Knitted wrist
- Size: 7-8, 9-10, 11
- Length: 23-28 cm
- Washable: x1

**KRYTECH 642**
- Comfort, suppleness and hight dexterity without any compromise on cut protection, breathability and durability.
- Suitable for Touch Screens
- Internal finish: Seamless knitted textile support manufactured from composite and HDPE fibres, Gauge 15
- External finish: Foam nitrile coating with sandy finish on palm and fingers, Knitted wrist
- Size: 6-7, 8-9, 10-11
- Length: 22-27 cm
- Washable: x1

**Mapa Professional Catalogue - mapa-pro.com**
MECHANICAL PROTECTION
KRYTECH RANGE

PRECISION WORK
Select your cut protection gloves according to your specific needs. For precision work, you need gloves that act like a second skin, protecting against cuts but maintaining excellent dexterity.

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT
Select the glove that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments
- wet environments

2 RISK
The higher the level of performance, the greater the glove’s resistance to the combined effects of the sharpness of the object’s cutting edge and the pressure applied.
- low risk - ISO B
- moderate risk - ISO C
- high risk - ISO D
- very high risk - ISO E

3 SERVICE LIFE
The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.
- short service life
- long service life
- high-performance service life

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT
Select the glove that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments
- wet environments

2 RISK
The higher the level of performance, the greater the glove’s resistance to the combined effects of the sharpness of the object’s cutting edge and the pressure applied.
- low risk - ISO B
- moderate risk - ISO C
- high risk - ISO D
- very high risk - ISO E

3 SERVICE LIFE
The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.
- short service life
- long service life
- high-performance service life
**MECHANICAL PROTECTION**

**KRYTECH RANGE**

**PRECISION WORK**
Select your cut protection gloves according to your specific needs. For precision work, you need gloves that act like a second skin, protecting against cuts but maintaining excellent dexterity.

**HOW CAN YOU REFINE YOUR CHOICE?**

1. **ENVIRONMENT**
   Select the glove that meets your needs according to your working environment:
   - dry and relatively clean environments
   - oily and very dirty environments
   - wet environments

2. **RISK**
   The higher the level of performance, the greater the glove’s resistance to the combined effects of the sharpness of the object’s cutting edge and the pressure applied.
   - low risk - ISO 8
   - moderate risk - ISO C
   - high risk - ISO D
   - very high risk - ISO E

3. **SERVICE LIFE**
   The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.
   - short service life
   - long service life
   - high-performance service life

<table>
<thead>
<tr>
<th>KRYTECH 586</th>
<th>KRYTECH 615</th>
<th>KRYTECH 622</th>
<th>KRYTECH 644</th>
<th>KRYTECH 645</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-level protection for precise handling in reasonably clean environments</td>
<td>High cut protection with a maximum comfort</td>
<td>Very high-level cutting protection, comfortable thanks to excellent adjustment and good compatibility with touch screens</td>
<td>Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens</td>
<td>Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens</td>
</tr>
<tr>
<td>Internal finish</td>
<td>Internal finish</td>
<td>Internal finish</td>
<td>Internal finish</td>
<td>Internal finish</td>
</tr>
<tr>
<td>Seamless knitted textile support in composite and HDPE fibres</td>
<td>Seamless knitted textile support in composite and HDPE fibres</td>
<td>Seamless knitted textile support in composite and HDPE fibres</td>
<td>Seamless knitted textile support in composite and HDPE fibres</td>
<td>Seamless knitted textile support in composite and HDPE fibres</td>
</tr>
<tr>
<td>Gauge 13</td>
<td>Gauge 13</td>
<td>Gauge 15</td>
<td>Gauge 15</td>
<td>Gauge 15</td>
</tr>
<tr>
<td>External finish</td>
<td>External finish</td>
<td>External finish</td>
<td>External finish</td>
<td>External finish</td>
</tr>
<tr>
<td>Polyurethane coating on the palm and fingers</td>
<td>Polyurethane coating on the palm and fingers</td>
<td>Polyurethane coating on the palm and fingers</td>
<td>Foam nitrile coating with sandy finish on palm and fingers</td>
<td>Foam nitrile coating with sandy finish on palm and fingers</td>
</tr>
<tr>
<td>Knitted wrist</td>
<td>Knitted wrist</td>
<td>Knitted wrist</td>
<td>Knitted wrist</td>
<td>Knitted wrist</td>
</tr>
<tr>
<td>Size</td>
<td>Size</td>
<td>Size</td>
<td>Size</td>
<td>Size</td>
</tr>
<tr>
<td>6 7 8 9 10 11</td>
<td>6 7 8 9 10 11</td>
<td>6 7 8 9 10 11</td>
<td>6 7 8 9 10 11</td>
<td>6 7 8 9 10 11</td>
</tr>
<tr>
<td>Length</td>
<td>Length</td>
<td>Length</td>
<td>Length</td>
<td>Length</td>
</tr>
<tr>
<td>24-30 cm</td>
<td>23.5-30 cm</td>
<td>24-29 cm</td>
<td>22-27 cm</td>
<td>22-27 cm</td>
</tr>
<tr>
<td>Washable x3</td>
<td>Washable x3</td>
<td>Washable x5</td>
<td>Washable x1</td>
<td>Washable x1</td>
</tr>
<tr>
<td>CAT 2</td>
<td>CAT 2</td>
<td>CAT 2</td>
<td>CAT 2</td>
<td>CAT 2</td>
</tr>
<tr>
<td>4X43D</td>
<td>4X43D</td>
<td>4X43E</td>
<td>X1XXXX</td>
<td>X1XXXX</td>
</tr>
<tr>
<td>ISO 13997: 18.6 N</td>
<td>ISO 13997: 20 N</td>
<td>ISO 13997: 29.5 N</td>
<td>ISO 13997: 16 N</td>
<td>ISO 13997: 29.5 N</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Touch Screen</td>
<td>Touch Screen</td>
<td>Touch Screen</td>
<td>Touch Screen</td>
</tr>
</tbody>
</table>
MECHANICAL PROTECTION
KRYTECH RANGE

PRECISION WORK
Select your cut protection gloves according to your specific needs. For precision work, you need gloves that act like a second skin, protecting against cuts but maintaining excellent dexterity.

HOW CAN YOU REFINE YOUR CHOICE?

1. ENVIRONMENT
Select the glove that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments
- wet environments

2. RISK
The higher the level of performance, the greater the glove’s resistance to the combined effects of the sharpness of the object’s cutting edge and the pressure applied.
- low risk - ISO B
- moderate risk - ISO C
- high risk - ISO D
- very high risk - ISO E

3. SERVICE LIFE
The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.
- short service life
- long service life
- high-performance service life

KRYTECH 580*
Moderate protection, grip and skin protected for precise handling slightly oily and dirty environments

KRYTECH 599*
Moderate protection against cutting, grip and skin protected for complex handling operations in oily environment

KRYTECH 600*
Moderate protection against cutting, grip and skin protected for complex handling operations in very oily environment

KRYTECH 585
Enhanced safety, comfort and durability with Grip & Proof Technology

KRYTECH 582
High-level cutting protection for complex handling operations in oily environment

Internal finish
Seamless knitted textile support of HDPE fibre
Gauge 13

External finish
Double layer coating: Nitrile Smooth - Sandy Nitrile
Knitted wrist

Size
7 8 9 10 11
Length
23-28 cm

Internal finish
Seamless knitted textile support of HDPE fibre
Gauge 13

External finish
Double layer coating: Nitrile Smooth - Sandy Nitrile
Knitted wrist

Size
7 8 9 10 11
Length
23-28 cm

Internal finish
Seamless knitted textile support of HDPE fibre
Gauge 13

External finish
Double layer coating: Nitrile Smooth - Sandy Nitrile
Knitted wrist

Size
7 8 9 10 11
Length
23-28 cm

Washable x3

Internal finish
Seamless knitted textile support made from composite fibres and HDPE fibres
Gauge 15

External finish
3/4 Grip&Proof nitrile coating
Double layer coating: Nitrile Smooth - Sandy Nitrile
Knitted wrist

Size
7 8 9 10 11
Length
24-29 cm

Washable x5

Internal finish
Seamless knitted textile support made from composite fibres and HDPE fibres
Gauge 13

External finish
3/4 nitrile coating
Double layer coating: Nitrile Smooth - Sandy Nitrile
Knitted wrist

Size
7 8 9 10 11
Length
23-28 cm

Washable x5

EN388:2016
X1XXXX
ISO 13997: 6 N

EN388:2016
X1XXXX
ISO 13997: 6 N

EN388:2016
X1XXXX
ISO 13997: 6 N

EN388:2016
X1XXXX
ISO 13997: 13 N

EN388:2016
X1XXXX
ISO 13997: 18 N

Mapa Professional Catalogue - mapapro.com
MECHANICAL PROTECTION
KRYTECH RANGE

PRECISION WORK
Cut protection cuffs with thumb hole for improved comfort and dexterity and wearer’s safety.

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT
Select the cuff that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments
- wet environments

2 RISK
The higher the level of performance, the greater the ability of the cuff to stand up to the combined effects of the sharpness of the cutting edge and the pressure applied.
- low risk - ISO B
- moderate risk - ISO C
- high risk - ISO D
- very high risk - ISO E

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT
Select the cuff that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments
- wet environments

2 RISK
The higher the level of performance, the greater the ability of the cuff to stand up to the combined effects of the sharpness of the cutting edge and the pressure applied.
- low risk - ISO B
- moderate risk - ISO C
- high risk - ISO D
- very high risk - ISO E

KRYTECH 532
Moderate protection reinforcement made from HDPE, ultra thin thumb hole in polyamide

Length Width Washable
45 cm 140 mm x5

Cat. 2
EN388:2016
334XB
ISO 13997: 5.3 N

KRYTECH 532 S
Moderate protection reinforcement made from HDPE, ultra thin thumb hole in polyamide

Length Width Washable
45 cm 95 mm x5

Cat. 2
EN388:2016
334XB
ISO 13997: 5.3 N

KRYTECH 538
High-performance protection from HDPE and fiberglass, polyamide ultra-thin thumb loop

Length Width Washable
60 cm 150 mm x5

Cat. 2
EN388:2016
4X4XD
ISO 13997: 17.8 N
HEAVY HANDLING WORK
Select your cut protection gloves according to your specific needs. For heavy handling work, your gloves must protect against cuts and impacts but also need to be tough and long lasting.

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT
Select the glove that meets your needs according to your working environment:
- dry and relatively clean environments
- oily and very dirty environments
- wet environments

2 RISK
The higher the level of performance, the greater the glove’s resistance to the combined effects of the sharpness of the object’s cutting edge and the pressure applied.
- low risk - ISO 8
- moderate risk - ISO C
- high risk - ISO D
- very high risk - ISO E

3 SERVICE LIFE
The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.
- short service life
- long service life
- high-performance service life

---

KRYTECH RANGE

KRYTECH 836
Excellent cutting protection and resistance to wear with optimum dexterity and comfort

KRYTECH 838
Reinforced cut protection for the food industry. Ambidextrous

KRYTECH 832
High-level protection for handling heavy, sharp objects in dry and relatively clean environments

KRYTECH 840
High-level protection for handling heavy or sharp objects in wet environments

KRYTECH 380
Moderate protection against cutting, grip and skin protected for heavy handling operations in oily/dirty environment

KRYTECH 395
Final chemical protection and cut protection combined

KRYTECH 851
High-level cutting protection, shock absorption, durability and comfort for heavy handling work

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Mapa Professional Catalogue - mapa-pro.com
**THERMAL PROTECTION**

The Mapa Professional thermal protective glove range provides excellent comfort and protection to hands whenever work situations require thermal protection in a hot or cold environment.

### HOW CAN YOU REFINE YOUR CHOICE?

**1 TEMPERATURE**
- According to the temperature of the objects to be handled.
  - Temperature -10°C
  - Temperature up to 150°C
  - Temperature above 150°C

**2 ENVIRONMENT**
- Depending on the environment in which you are working.
  - Wet environments
  - Dry environments
  - Moderately oily environments
  - Chemical environments

**3 USAGE DURATION**
- For cold, this relates to the intrinsic quality of the coating material.
- For heat depends on the contact time with the part at a given temperature.

<table>
<thead>
<tr>
<th>SERVICE LIFE (COLD)</th>
<th>CONTACT TIME (HOT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long service life</td>
<td>Short contact</td>
</tr>
<tr>
<td>High-performance</td>
<td>Prolonged contact</td>
</tr>
</tbody>
</table>

---

### TEMPICE 770
**Thermal insulation**
100% sealed for protecting against intense contact cold

**Dexterity and comfort for optimised thermal protection and durability**

<table>
<thead>
<tr>
<th>Internal finish</th>
<th>External finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jersey textile</td>
<td>Pebbled PVC</td>
</tr>
<tr>
<td>support lined</td>
<td>coating</td>
</tr>
<tr>
<td>with a woolen</td>
<td></td>
</tr>
<tr>
<td>sleeve</td>
<td></td>
</tr>
</tbody>
</table>

**How Can You Refine Your Choice?**

**1 TEMPERATURE**
- Temperature -10°C
- Temperature up to 150°C
- Temperature above 150°C

**2 ENVIRONMENT**
- Wet environments
- Dry environments
- Moderately oily environments
- Chemical environments

**3 USAGE DURATION**
- For cold, this relates to the intrinsic quality of the coating material.
- For heat depends on the contact time with the part at a given temperature.

---

### TEMPICE 700
**Thermal insulation**
100% sealed for protecting against intense contact cold

**Dexterity and comfort for optimised thermal protection and durability**

<table>
<thead>
<tr>
<th>Internal finish</th>
<th>External finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double seamless</td>
<td>Nitrile coating</td>
</tr>
<tr>
<td>knitted textile</td>
<td>and dot embossing</td>
</tr>
<tr>
<td>support</td>
<td>on palm and</td>
</tr>
<tr>
<td>support</td>
<td>fingers</td>
</tr>
<tr>
<td>Knitted wrist</td>
<td></td>
</tr>
</tbody>
</table>

**How Can You Refine Your Choice?**

**1 TEMPERATURE**
- Temperature -10°C
- Temperature up to 150°C
- Temperature above 150°C

**2 ENVIRONMENT**
- Wet environments
- Dry environments
- Moderately oily environments
- Chemical environments

**3 USAGE DURATION**
- For cold, this relates to the intrinsic quality of the coating material.
- For heat depends on the contact time with the part at a given temperature.

---

### TEMPICE 710
**Thermal insulation**
100% sealed for protecting against intense contact cold

**Dexterity and resistance to cuts for optimised thermal protection**

<table>
<thead>
<tr>
<th>Internal finish</th>
<th>External finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seamless knitted</td>
<td>Nitrile coating</td>
</tr>
<tr>
<td>textile support</td>
<td>and dot</td>
</tr>
<tr>
<td>support</td>
<td>embossing on</td>
</tr>
<tr>
<td>Knitted wrist</td>
<td>palm and finger</td>
</tr>
</tbody>
</table>

**How Can You Refine Your Choice?**

**1 TEMPERATURE**
- Temperature -10°C
- Temperature up to 150°C
- Temperature above 150°C

**2 ENVIRONMENT**
- Wet environments
- Dry environments
- Moderately oily environments
- Chemical environments

**3 USAGE DURATION**
- For cold, this relates to the intrinsic quality of the coating material.
- For heat depends on the contact time with the part at a given temperature.

---

### TEMPICE 720
**Thermal insulation**
100% sealed for protecting against intense contact cold

**Hygienic with high-temperature thermal protection and multi-purpose chemical resistance**

<table>
<thead>
<tr>
<th>Internal finish</th>
<th>External finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knitted seamless</td>
<td>Nitrile coating</td>
</tr>
<tr>
<td>textile support</td>
<td>and dot</td>
</tr>
<tr>
<td>Knitted wrist</td>
<td>embossing on</td>
</tr>
<tr>
<td></td>
<td>palm and finger</td>
</tr>
</tbody>
</table>

**How Can You Refine Your Choice?**

**1 TEMPERATURE**
- Temperature -10°C
- Temperature up to 150°C
- Temperature above 150°C

**2 ENVIRONMENT**
- Wet environments
- Dry environments
- Moderately oily environments
- Chemical environments

**3 USAGE DURATION**
- For cold, this relates to the intrinsic quality of the coating material.
- For heat depends on the contact time with the part at a given temperature.

---

### TEMPCODEX 476
**Thermal insulation**
100% sealed for protecting against intense contact cold

**Effective thermal insulation and multi-purpose chemical resistance**

<table>
<thead>
<tr>
<th>Internal finish</th>
<th>External finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knitted thermal</td>
<td>Non-slip embossing</td>
</tr>
<tr>
<td>support</td>
<td>Nitrile coating</td>
</tr>
<tr>
<td>Knitted wrist</td>
<td></td>
</tr>
</tbody>
</table>

**How Can You Refine Your Choice?**

**1 TEMPERATURE**
- Temperature -10°C
- Temperature up to 150°C
- Temperature above 150°C

**2 ENVIRONMENT**
- Wet environments
- Dry environments
- Moderately oily environments
- Chemical environments

**3 USAGE DURATION**
- For cold, this relates to the intrinsic quality of the coating material.
- For heat depends on the contact time with the part at a given temperature.

---

### TEMPCODEX 332
**Thermal insulation**
100% sealed for protecting against intense contact cold

**Effective thermal insulation and multi-purpose chemical resistance**

<table>
<thead>
<tr>
<th>Internal finish</th>
<th>External finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knitted seamless</td>
<td>Nitrile coating</td>
</tr>
<tr>
<td>textile support</td>
<td>and dot</td>
</tr>
<tr>
<td>Knitted wrist</td>
<td>embossing on</td>
</tr>
<tr>
<td></td>
<td>palm and finger</td>
</tr>
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</table>

**How Can You Refine Your Choice?**

**1 TEMPERATURE**
- Temperature -10°C
- Temperature up to 150°C
- Temperature above 150°C

**2 ENVIRONMENT**
- Wet environments
- Dry environments
- Moderately oily environments
- Chemical environments

**3 USAGE DURATION**
- For cold, this relates to the intrinsic quality of the coating material.
- For heat depends on the contact time with the part at a given temperature.

---

### Temperature and Contact Time

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Contact Time (Short-term)</th>
<th>Contact Time (Prolonged)</th>
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</thead>
<tbody>
<tr>
<td>-10°C</td>
<td>1 min</td>
<td>1 min to 3 min</td>
</tr>
<tr>
<td>10°C</td>
<td>1 min</td>
<td>1 min to 3 min</td>
</tr>
<tr>
<td>20°C</td>
<td>1 min</td>
<td>1 min to 3 min</td>
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</tbody>
</table>

---

### Certification Details

- EN ISO 374-5:2016
- EN388:2016
- EN511
- EN ISO 374-1:2016
- EN407
- EN ISO 13997: 2016

---

### Mapa Professional Catalogue - mapa-pro.com
Compliance with hygiene rules is an essential requirement in the food industry. The industry invests to continuously improve the safety of its customers, as producers alone are legally liable for the sanitary quality of their products.

European regulations define precisely the food contact tests to be performed for each type of food. So, a glove can be approved for the handling of certain foodstuffs and not others.

Indeed, simply affixing the pictogram to a glove without giving more detailed information does not provide an adequate guarantee of compatibility with a given food.

Through its dedicated food industry selection guide, Mapa Professional aims to help end users check the food compliance of each glove according to the foods they actually handle, strictly in line with European and French regulations.

By providing the test results for all of the gloves in its Food Expert range, Mapa Professional aims to meet the strictest requirements of its customers’ Quality systems.

### SELECT THE RIGHT GLOVE FOR YOU ACCORDING TO THE FOOD HANDLED

**STEP 1** Find the food you handle using the food groups.

**STEP 2** Identify the gloves suitable for handling this type of food.

**STEP 3** Turn to the next page to choose the level of protection required (disposable, thermal protection, cut protection, liquidproof) and the performance required based on your use.

#### FOOD CONTACT: YOUR SELECTION GUIDE

#### SELECT THE RIGHT GLOVE

**STEP 1** YOU ARE HANDLING

**DRINKS**
- Non-alcoholic beverages
- Alcoholic beverages of an alcoholic strength higher than equal to 20%.
- Alcoholic beverages of an alcoholic strength between 6% and 20%.
- Alcoholic beverages of an alcoholic strength lower than equal to 6%.
- Alcoholic beverages of an alcoholic strength above 20%.
- Beverages, wines, rum, molasses, rum p.d.g., rumarey, and similar products and beverages.

**CEREALS, STARCHES, SUGARS, CHOCOLATES AND DERIVED PRODUCTS**
- Millet, rice, sorghum, rye, barley, wheat, oat, corn, cornmeal, starch, and similar products.
- Beans, lentils, peas, soy, and similar products.
- Honey, maple syrup, molasses, agave syrup, cane sugar, and similar products.
- Milk, cream, sour cream, yogurt, butter, and similar products.
- Eggs, egg whites, egg yolks, and similar products.

**FRUIT, VEGETABLES AND DERIVATIVES**
- Fruits (fresh, canned, frozen, or dried).
- Vegetables (fresh, frozen, or canned).

**FATS AND OILS**
- Fats, oils, and similar products.

**ANIMAL PRODUCTS AND EGGS**
- Meat of all zoological species (fresh, chilled, salted, smoked, or in the form of paste).
- Milk powder, including infant formula.

**DAIRY PRODUCTS**
- Curd, cream, butter.

**DRESSINGS**
- Acids, vinegar, lemon juice, and similar products.

**MIXED FOOD PREPARATIONS**
- Fresh or dried fruit.

**OTHERS**
- Spices, pepper, salt, and similar products.

---

**Page 9**

<table>
<thead>
<tr>
<th>FOOD GROUP</th>
<th>Disposable Thermal Protection Cut Protection Liquidproof gloves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural latex</td>
<td>Mobile</td>
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<tr>
<td>BULL 955</td>
<td>BULL 967</td>
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</tbody>
</table>

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**Page 11**

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<td>Mobile</td>
</tr>
<tr>
<td>BULL 955</td>
<td>BULL 967</td>
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</tbody>
</table>

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**Page 13**

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<th>FOOD GROUP</th>
<th>Disposable Thermal Protection Cut Protection Liquidproof gloves</th>
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</thead>
<tbody>
<tr>
<td>Natural latex</td>
<td>Mobile</td>
</tr>
<tr>
<td>BULL 955</td>
<td>BULL 967</td>
</tr>
</tbody>
</table>

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Mapa Professional Catalogue - mapa-pro.com

FOOD EXPERT RANGE
FOOD EXPERT RANGE

Compliance with hygiene rules is an essential requirement in the food industry. The industry invests to continuously improve the safety of its customers, as producers alone are legally liable for the sanitary quality of their products.

European regulations define precisely the food contact tests to be performed for each type of food. So, a glove can be approved for the handling of certain foodstuffs and not others.

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By providing the test results for all of the gloves in its Food Expert range, Mapa Professional aims to meet the strictest requirements of its customers’ Quality systems.

### DISPOSABLE GLOVES

#### MATERIAL
- NATURAL LATEX
- NITRILE
- TEXTILE FIBRE

#### FINISHING
- POWDERED
- NON POWDERED

#### SOLO 988
- The perfect protection for light food handling
- External finish: Smooth
  - Size: 6, 7, 8, 9
  - Length: 23 cm
  - Thickness: 0.10 mm

#### SOLO 995
- The perfect protection for light food handling
- External finish: Smooth with pebbled fingertips
  - Size: 6, 7, 8, 9
  - Length: 24-26 cm
  - Thickness: 0.10 mm

#### SOLO 967
- Great value for light handling of oily food
  - Available in bag and box
- External finish: Smooth with pebbled fingertips
  - Size: 6, 7, 8, 9
  - Length: 24.5 cm
  - Thickness: 0.08 mm

#### TEMP-COOK 476
- Hygiene and effective thermal protection
  - 100% liquid-proof
- Internal finish: Knitted thermal protection
  - External finish: Non-slip embossing
  - Size: 7(S), 9(M), 10(L)
  - Length: 45 cm

#### KRYTECH 838
- Reinforced cut protection for the food industry
  - Ambidextrous
- Internal finish: Seamless knitted lining made from HDPE fibers
  - Gauge: 10
  - Size: 6, 7, 8, 9, 10, 11
  - Length: 34 cm
  - Washable x20

Mapa Professional Catalogue - mapa-pro.com
HOW CAN YOU REFINE YOUR CHOICE?

1. WEAR TIME
   Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).
   - short wear (Chlorinated interior finish)
   - intermittent wear (Flocked interior finish)
   - continuous wear (Fabric-lined interior finish)
   - ultra-comfort wear (MAPA exclusive technology providing greater flexibility)

2. MATERIAL
   Materials guide for disposable and liquid-proof gloves.
   - Natural latex
     Flexibility, comfort and value for money.
   - Nitrile
     Strength, durability, handling of oily foods with no risk of allergies.

<table>
<thead>
<tr>
<th>LIQUIDPROOF GLOVES</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATERIAL</td>
</tr>
<tr>
<td>NATURAL LATEX</td>
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<thead>
<tr>
<th>FINISHING</th>
<th>CHLORINATED</th>
<th>FLOCKED</th>
<th>BACKED</th>
<th>BACKED WITH GRIP</th>
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<tbody>
<tr>
<td>short wear</td>
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<tr>
<td>intermittent wear</td>
<td></td>
<td></td>
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<tr>
<td>continuous wear</td>
<td></td>
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<th>VITAL 177</th>
<th>Dexterity and flexibility</th>
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<td>Internal finish</td>
<td>Chlorinated</td>
</tr>
<tr>
<td>External finish</td>
<td>Non-slip embossing</td>
</tr>
<tr>
<td>Size</td>
<td>6 7 8 9 10</td>
</tr>
<tr>
<td>Length</td>
<td>31 cm</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.40 mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>VITAL 165</th>
<th>Flexibility and precision dexterity</th>
</tr>
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<tbody>
<tr>
<td>Internal finish</td>
<td>Flocked</td>
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<tr>
<td>External finish</td>
<td>Non-slip embossing</td>
</tr>
<tr>
<td>Size</td>
<td>6 7 8 9 10</td>
</tr>
<tr>
<td>Length</td>
<td>30.5 cm</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.29 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JERSETTE 308</th>
<th>Comfortable and suitable for long-term work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal finish</td>
<td>Textile support</td>
</tr>
<tr>
<td>External finish</td>
<td>Smooth</td>
</tr>
<tr>
<td>Size</td>
<td>6 7 8 9 10</td>
</tr>
<tr>
<td>Length</td>
<td>30-33 cm</td>
</tr>
<tr>
<td>Thickness</td>
<td>1.15 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HARPON 326</th>
<th>Comfort and safety for gripping bulky, slippery foods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal finish</td>
<td>Textile support</td>
</tr>
<tr>
<td>External finish</td>
<td>Reinforced grip</td>
</tr>
<tr>
<td>Size</td>
<td>7 8 9 10</td>
</tr>
<tr>
<td>Length</td>
<td>32 cm</td>
</tr>
<tr>
<td>Thickness</td>
<td>1.35 mm</td>
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</tbody>
</table>

EN ISO 374-5:2016
KPT
EN ISO 374-1:2016
TYPE B
EN 407
X1XXXX
EN 388:2016
KPT
EN 388:2016
X1XXXX
EN 388:2016
KPT
EN 388:2016
X1XXXX
EN 388:2016
KPT
EN 388:2016
X1XXXX
LIQUIDPROOF PROTECTION
NITRILE

HOW CAN YOU REFINE YOUR CHOICE?

1 RISK
Combination between contact time and the aggressiveness of the chemical being handled. Choose the performance of your gloves based on the type of risk:
- *splashes*
- *frequent* contact
- *prolonged* contact (or immersion)

2 WEAR TIME
Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).
- **short wear**
  - Chlorinated interior finish
- **intermittent wear**
  - Flocked interior finish
- **continuous wear**
  - Fabric-lined interior finish
- **ultra-comfort wear**
  - (MAPA exclusive technology providing greater flexibility)

3 MATERIAL
Materials guide for disposable and liquid-proof gloves.
- **Natural latex**
  - Flexibility, comfort and value for money.
- **Nitrile**
  - Strength, durability, handling of fatty foods with no risk of allergies.

### LIQUIDPROOF GLOVES

#### MATERIAL
NITRILE

<table>
<thead>
<tr>
<th>FINISHING</th>
<th>EASY GOING TREATMENT</th>
<th>FINISHING</th>
<th>FLOCKED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>short wear</strong></td>
<td></td>
<td><strong>intermittent wear</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### ULTRANITRIL 472
- Internal finish: Flocked
- External finish: Non-slip embossing
- Size: 6 7 8 9 10
- Length: 31 cm
- Thickness: 0.20 mm
- Fingertip precision for handling oily foods

#### ULTRANITRIL 475
- Internal finish: Flocked
- External finish: Non-slip embossing
- Size: 6 7 8 9 10
- Length: 31 cm
- Thickness: 0.34 mm
- Liquidproof and strong for handling oily foods

#### ULTRANITRIL 495
- Internal finish: Flocked
- External finish: Non-slip embossing
- Size: 6 7 8 9 10
- Length: 30-33 cm
- Thickness: 0.41 mm
- The lasting solution for safe handling of oily foods

#### ENVIRONMENTAL COMPLIANCE

- **EN ISO 374-5:2016**
- **2101X**
- **EN ISO 374-1:2016**
- **TYPE B**
- **EN ISO 374-2:2016**
- **2300X**
- **EN ISO 374-5:2016**
- **AJKOPT**
- **EN ISO 374-5:2016**

#### VIRUS PROTECTION

- **EN ISO 374-5:2016**
- **2101X**
- **JOT**
- **EN ISO 374-5:2016**
- **3100X**
- **AJKOPT**
- **EN ISO 374-5:2016**

#### CATEGORY 3

- **EN ISO 374-5:2016**
- **2101X**
- **JOT**
- **EN ISO 374-5:2016**
- **3100X**
- **AJKOPT**
- **EN ISO 374-5:2016**
CRITICAL ENVIRONMENT PROTECTION

Ensuring the protection of both operators and the products they handle, the Mapa Professional ranges of gloves were designed to perfectly fulfil the requirements of high-tech production.

Created with innovative, highly technical processes and subject to inspection at every stage of their design and of packaging, these gloves satisfy all the quality criteria necessary for work in controlled environments.

QUALITY GUARANTEES AT EVERY STAGE OF PRODUCTION

- Mapa Professional uses its own post-manufacturing cleaning process and clean rooms to maintain a level of product and packaging quality that meets requirements for cleanliness and sterility.
- All manufacturing sites have ISO 9002 certification.
- The levels of glove cleanliness are tested periodically to ensure that the production quality of these gloves intended for use in critical environments complies with established specifications.
- Each chemical protection glove is tested using appropriate methods to detect any sealing defects so as to maintain operator safety.
- The chemical resistance checks comply with ASTM standards and EN 374-3, providing users with the information they need to choose a suitable glove for a given application.

YOUR PRIORITIES ARE OUR PRIORITIES

- Improving the effectiveness of the users, their productivity and their safety, by designing gloves that are ever-more effective and safe to use,
- Increasing production yields by reducing the amount of contaminants in products.
<table>
<thead>
<tr>
<th>References</th>
<th>Pair/Bag</th>
<th>Pairs/ Masterbag</th>
<th>Pairs/ Carton</th>
<th>Page N°</th>
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