Protective Gloves Catalogue

A solution for every hand that works

MAPA PROFESSIONNEL
for the job in hand, there is a Mapa glove

www.mapa-pro.com
Because every company faces different risks,

Mapa Professionnel has a wide range of protective gloves

New materials, processes and finishes... Mapa Professionnel gloves are designed to overcome the constraints of the professional and industrial world, as well as to meet increasing demands for protection and comfort:

- **Disposable**
  Disposable gloves to protect hands and products during delicate work.

- **Liquidproof Protection**
  For prolonged contact with mildly aggressive liquids.

- **Chemical Protection**
  A solution for every chemical risk situation when handling more or less aggressive products.

- **Handling Protection**
  To resist injuries endured during general handling work (precision work/heavy-duty work).

- **Cut Protection**
  To provide hand comfort and protection specially designed for various types of work involving cutting hazards.

- **Thermal Protection**
  For any work requiring thermal protection in a hot or cold environment.

- **Food Expert**
  To provide an appropriate response to each application in the food industry and ensure maximum hygiene.

- **Critical Environments**
  To ensure the protection of both operators and the products they handle in controlled or confined environments.

**This catalogue has been the product that gives you**

For more information and to download the data sheets for all of our products

www.mapa-pro.com
designed to help you find the protection you need.

**European legislation and standards**

European Directives regarding personal protective equipment lay down the requirements that the equipment and their users must satisfy. The standards are used to draw up technical specifications that meet these new requirements. Directive 89/668/EEC (use) lays down the requirements that employers must meet with regard to the supply and use of PPE by their employees. Directive 89/668/EEC lays down the essential requirements for marketing protective gloves within the European Union. The whole Mapa Professionnel range is certified in compliance with these essential requirements, and is labelled with the CE-marking.

**CE certification categories**

- **Category 1**: The manufacturer is responsible for the conformity of its products with respect to the essential requirements of the Directive.
- **Category 2**: Certificate of conformity obtained from a notified body.
- **Category 3**: Certificate of conformity and regular production inspections on the manufacturer’s premises by the notified bodies.

**Pictograms**
The following pictograms, defined according to European standards, can help you understand the performance characteristics of a glove.
UNDERSTAND THE SPECIFIC CHARACTERISTICS of a glove in order to make the best choice.

Why opt for one type of wrist finish rather than another?

Because wrist finishes are designed according to the type of use and precise characteristics.

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

- Knitted wrist
  Fitted to the hand and protects the wrist.

- Straight cuff
  Better hand ventilation.

- Rolled cuff
  Increased resistance to tearing when putting gloves on.

- Scalloped cut
  Longer-lasting glove.

What shape, size or thickness?

Glove lengths.
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 sizes.
This depends on the circumference of the user's palm, and varies from size 6 to 11. To be comfortable during use, a glove needs to be the correct size.

Glove thickness.
This influences the user's dexterity and the glove's performance. It varies from 0.08 to 2.5 mm.
> Anatomical or ambidextrous glove?

A glove is called **anatomical** when there is one shape for the left hand and another for the right. **Ambidextrous** gloves can be worn equally well on either hand; this is principally the case for thinner gloves.

> How to choose the appropriate exterior finish?

- **Smooth**: Does not mark the objects handled.
- **Embossed texture**: Excellent grip in oily environments.
- **Pebbled**: Good grip and minimal glove fouling.
- **Reinforced grip**: Excellent grip in wet environments.
- **Grip and proof**: Excellent grip in oily environments combined with liquidproof protection.
- **Dots**: Improved thermal insulation.

> The various interior finishes

- **Powdered**: Makes it easier to put gloves on and take them off, without having to increase the thickness of the glove.
- **Chlorinated**: 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.
- **Flocked**: Cotton-based textile fibres, covering the inside of the gloves. Fleeced feel providing good absorption of perspiration.
- **Textile support**: Knitted interior, made from cotton or synthetic materials for increased comfort or specific performance.
- **The different textile types**
  - **Cotton**: Comfort, thermal insulation and absorption of perspiration.
  - **Polyamide**: Optimised dexterity (fine, seamless).
  - **Para-aramide**: Cut and heat-resistant.
  - **High density polyethylene**: Cut-resistant and optimised dexterity (PEHD).
Disposable

Mapa Professionnel offers a range of disposable gloves to meet your needs, regardless of your working environment.

The use of different polymers makes it possible to optimise glove performance and ergonomics: flexibility, sturdiness, comfort, etc.

HOW CAN YOU REFINE YOUR CHOICE?

> POLYMERS

- **PVC**: mechanical resistance and price
- **LATEX**: flexibility and comfort
- **NITRILE**: mechanical resistance and resistance to oils
- **TRIPOLYMER**: flexibility, mechanical resistance and chemical resistance to splashes.

> INTERIOR FINISHES

The various interior finishes (powdered/chlorinated) make it possible to adapt to the specific characteristics of applications and the specific requirements of the wearer.

- **POWDERED**: Better absorption of perspiration
- **CHLORINATED**: Gloves are quick to put on and no traces of powder are left on the hands

> 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.

> 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.

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

To ensure consistent quality across the disposable range, these gloves are all of an Acceptable Quality Level (AQL).
<table>
<thead>
<tr>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH/THICKNESS</th>
<th>INTERIOR/EXTERIOR FINISH</th>
<th>STANDARDS</th>
<th>APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLO 990</td>
<td>The best value for precise movements</td>
<td>6 7 8 9</td>
<td>24 cm / 0.10 mm</td>
<td>Powdered/Smooth</td>
<td>CAT 3</td>
<td>Automotive/mechanical industry: - Assembly of small parts</td>
</tr>
</tbody>
</table>
| SOLO EXTRA 998 |                             | 6 7 8 9 | 30 cm / 0.10 mm  | Chlorinated/Smooth with pebbled fingertips | CAT 3     | Automotive/mechanical industry: - Assembly of small, oil and grease free parts  
Health: - Common tasks in hospitals and clinics  
Laboratory: - Medicine manufacturing  - Pharmaceutical preparation  - Research, analysis, manipulation of precision parts |
| SOLO PLUS 995 | Optimal flexibility and dexterity     | 6 7 8 9 | 24.5 cm / 0.10 mm | Powdered/Smooth          | CAT 3     | Automotive/mechanical industry: - Assembly of small, oil and grease free parts  
Health: - Common tasks in hospitals and clinics  
Laboratory: - Medicine manufacturing  - Pharmaceutical preparation  - Research, analysis, manipulation of precision parts |
| SOLO 992  |                                            | 6 7 8 9 | 30.5 cm / 0.10 mm | Chlorinated/Smooth with pebbled fingertips | CAT 3     | Automotive/mechanical industry: - Assembly of small, oil and grease free parts  
Health: - Common tasks in hospitals and clinics  
Laboratory: - Medicine manufacturing  - Pharmaceutical preparation  - Research, analysis, manipulation of precision parts |
| SOLO ULTRA 999 | Excellent mechanical resistance, ideal in oily environments | 6 7 8 9 | 25.5 cm / 0.15 mm | Chlorinated/Pebbled      | CAT 3     | Aeronautics industry: - Work with composite materials (resins)  
Automotive/mechanical industry: - Assembly of small oily parts  
Laboratory: - Medicine manufacturing  - Pharmaceutical preparation  - Research, analysis, manipulation of precision parts |
| SOLO ULTRA 997 | Ideal protection for light handling in oily environments | 6 7 8 9 | 24.5 cm / 0.10 mm | Powdered/Smooth with pebbled fingertips | CAT 3     | Laboratory: - Medicine manufacturing  - Pharmaceutical preparation  - Research, analysis, manipulation of precision parts |
| SOLO ULTRA 996 | Excellent mechanical resistance, ideal in oily environments | 6 7 8 9 | 25.5 cm / 0.15 mm | Chlorinated/Pebbled      | CAT 3     | Laboratory: - Medicine manufacturing  - Pharmaceutical preparation  |
| TRILITES 994 | Triopolymer formula for protection against chemical splashes | 6 7 8 9 | 25.5 cm / 0.15 mm | Chlorinated/Pebbled      | CAT 3     | Laboratory: - Medicine manufacturing  - Pharmaceutical preparation  |
Liquidproof Protection

This line meets hand comfort and protection needs for all work involving liquids with a low chemical aggression factor: water, cleaning products, etc.

PERFORMANCE INDICATORS
To choose the most suitable product for your needs, we suggest you take into account two criteria:

> PROTECTION:
The performance level of a liquidproof glove is directly linked to your working environment.

**The greater the risk, the stronger your gloves need to be and the longer they need to protect you.**

- **LIGHT PROTECTION**
  use in light aggressive environments (cleaning products, water, etc.)

- **STANDARD PROTECTION**
  use in aggressive environments (detergents, etc.)

- **HIGH-LEVEL PROTECTION**
  use in aggressive environments (handling of heavy, slippery and rough objects, concentrated detergents, etc.)

> WEAR TIME:
This criteria 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-TERM USE**
  (opt for a chlorinated interior finish)

- **INTERMITTENT USE**
  (opt for a flocked interior finish)

- **CONTINUOUS USE**
  (opt for a fabric-lined finish to limit the effects of perspiration)
<table>
<thead>
<tr>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH/THICKNESS</th>
<th>MATERIAL/INT. FINISH/EXT. FINISH</th>
<th>STANDARDS</th>
<th>APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPERFOOD</td>
<td>Dexterity and flexibility in non-aggressive environments</td>
<td>7 8 9</td>
<td>31 cm / 0.45 mm</td>
<td>Latex/chlorinated/pebbled</td>
<td>2001</td>
<td>Food industry:  - Common cleaning tasks  - Handling and preparation see Food Expert range  - Local authorities (Cleaning):  - Handling of household detergents  - Mechanical industry:  - Assembly of small, oil and grease free parts</td>
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<tr>
<td>OPTINITY 472</td>
<td>Fingertip precision for light chemical protection and food handling</td>
<td>6 7 8 9 10</td>
<td>31 cm / 0.40 mm</td>
<td>Latex/blended nitrile/chlorinated/pebbled</td>
<td>1810</td>
<td>Construction industry (Carpentry/Joinery):  - Handling of PVC adhesives  - Preparation of filler and varnishes  - Food industry:  - Food handling and preparation see Food Expert range  - Mechanical industry:  - Assembly of small, oil and grease free parts</td>
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<td>VITAL</td>
<td>Precision dexterity in non-aggressive environments</td>
<td>6 7 8 9</td>
<td>30.5 cm / 0.38 mm</td>
<td>Latex/blended nitrile/chlorinated/pebbled</td>
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<td>Food industry:  - Common cleaning tasks  - Local authorities (Cleaning):  - Handling of household detergents  - Mechanical industry:  - Assembly of small, oil and grease free parts</td>
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<td>VITAL ECO 729</td>
<td>Exceptional comfort and precision dexterity in light aggressive environments</td>
<td>5 6 7 8 9</td>
<td>31 cm / 0.75 mm</td>
<td>Latex/textile support/pebbled</td>
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<td>Mechanical industry:  - Assembly of small, oil and grease free parts  - Other industries:  - Cleaning and general maintenance in wet environments</td>
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<tr>
<td>DUO-NIT</td>
<td>Exceptional comfort and precision dexterity in light aggressive environments</td>
<td>6 7 8 9</td>
<td>32 cm / 0.50 mm</td>
<td>Latex/blended nitrile/blended nitrile/textile support/pebbled</td>
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<td>Mechanical industry:  - Assembly of small, oil and grease free parts  - Other industries:  - Cleaning and general maintenance in wet environments</td>
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<td>DUO-MIX 405</td>
<td>Effective response to contact with aggressive detergents</td>
<td>6 7 8 9</td>
<td>31 cm / 0.35 mm</td>
<td>Synthetic material/blended nitrile/textile support/pebbled</td>
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<td>Health:  - Common tasks in hospitals and clinics  - Local authorities (Cleaning):  - Handling of household detergents</td>
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<tr>
<td>MEDIQ 210</td>
<td>Precision dexterity in mildly aggressive environments, for those sensitive to natural latex</td>
<td>6 7 8 9</td>
<td>29.33 cm / 1.15 mm</td>
<td>Latex/textile support/pebbled</td>
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<td>Aeronautics industry:  - Work with composite materials (resins)  - Construction industry (Masonry/Plastering):  - Preparing and pouring mortar and cement  - Local authorities (Cleaning):  - Handling of household detergents</td>
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<td>JERSETLITE 307</td>
<td>Maximum comfort for long-term work in aggressive environments</td>
<td>6 7 8 9</td>
<td>32 cm / 0.60 mm</td>
<td>Latex/blended nitrile/textile support/pebbled</td>
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<td>Aeronautics industry:  - Work with composite materials (resins)  - Chemical industry:  - Common handling tasks  - Mechanical industry:  - Assembly of small, oil and grease free parts  - Other industries:  - Industrial cleaning, maintenance</td>
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<td>OPTINITY 454</td>
<td>Precision dexterity in aggressive environments</td>
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<td>Aeronautics industry:  - Work with composite materials (resins)  - Chemical industry:  - Common handling tasks  - Mechanical industry:  - Assembly of small, oil and grease free parts  - Other industries:  - Industrial cleaning, maintenance</td>
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<tr>
<td>HARPO</td>
<td>Comfort and safety when gripping heavy, rough or slippery objects in highly aggressive environments</td>
<td>6 7 8 9</td>
<td>32 cm / 1.35 mm</td>
<td>Latex/textile support/reinforced grip</td>
<td>4131</td>
<td>Fishing:  - Fish-handling  - Oyster farming  - Work with frozen products</td>
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</tbody>
</table>
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 more of less aggressive products (oils, acids, solvents, etc).

More than 100,000 chemical substances are now classified, and can be identified, due to their unique CAS numbers.

In order to meet the diversity of hazardous situations that exist, Mapa Professionnel propose a wide range of protective gloves designed using polymers, which, due to their intrinsic nature, will behave differently with respect to the same chemical product.

Refer to our dynamic database, which is constantly updated, and download the chemical resistance tables for our gloves.

www.mapa-pro.com

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.

**SELECT THE MOST APPROPRIATE CHEMICAL GLOVE FOR YOUR NEEDS, USING THE THREE STEPS BELOW:**

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

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

**STEP 3:** Choose your gloves according to the level of protection you require.

**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 the materials when confronted with the various families of chemical products.

**The tests measure:**

> 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.

> The degradation index of the glove in contact with a given chemical product, i.e. the degree of deterioration of the glove, shown by an alteration of its physical properties (e.g. softening, hardening, etc.).

Mapa Professionnel takes these different parameters into account to determine the relative performance of the different families of gloves, and hence help you to make the best possible choice.
### Chemical Protection

**Mapa Profesional Catalogue - www.mapa-pro.com**

**The most frequently used materials for chemical protection gloves.**

**This target protection against certain families of aggressive chemicals. They are generally more expensive than common materials.**

#### Step 2

<table>
<thead>
<tr>
<th>CAS</th>
<th>EN374</th>
<th>PVC</th>
<th>Latex</th>
<th>Nitrile</th>
<th>Neoprene</th>
<th>Butyl</th>
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<td><strong>Common polymers</strong></td>
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#### Strengths

- Value for money
- Mechanical resistance
- Excellent flexibility
- Good puncture and tearing resistance
- Suitable for cold environments
- Good puncture and abrasion resistance
- No risk of protein-related allergies
- Good flexibility
- Good thermal resistance
- Excellent chemical resistance
- Flexible and elastic
- High chemical resistance

#### Restrictions

- Not suitable for handling hot parts
- Risk of allergies caused by the proteins in the natural latex
- Not recommended for cold environments
- Poor mechanical properties
- Poor mechanical properties

* The most frequently used materials for chemical protection gloves.

** This target protection against certain families of aggressive chemicals. They are generally more expensive than common materials.
for the job in hand, there is a Mapa glove.

<table>
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<tr>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH/THICKNESS</th>
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<th>STANDARDS</th>
<th>APPLICATIONS</th>
</tr>
</thead>
</table>
| TELSOL 361 | Long-lasting mechanical protection against low risk of chemical hazards | 9-10 | 35 cm / 1.3 mm | Textile support/pebbled   | 4121 AKL CAT 3 | Petrochemical industry:  
  - Maintenance and handling   
  Chemical industry:  
  - Handling drums of chemical products   
 Other industries:  
  - Cleaning and general maintenance in wet environments |
| TELBLUE 351 | Comfort, flexibility and mechanical protection for low chemical hazards | 8-9 10 | 30 cm / 1.5 mm |                           | 4121 AKL CAT 3 | Mechanical industry:  
  - Maintenance work in wet environments   
 Pharmaceutical industry:  
  - Maintenance and cleaning   
 Other industries:  
  - Servicing and maintenance work in wet environments |
| INDUSTRIAL 298 | Good mechanical performance for long-lasting chemical protection | 8-9 10 | 42 cm / 1 mm | Chlorinated/smooth | 4131 AKL CAT 3 | Mechanical industry:  
  - Maintenance work in wet environments  
  (water, oil, hydrocarbons, etc.)   
 Pharmaceutical industry:  
  - Maintenance and cleaning   
 Other industries:  
  - Servicing and maintenance work in wet environments |
| TRIDENT 285 | Fine touch for light chemical protection | 7-8 9 10 | 60 cm / 1 mm | Chlorinated/reinforced grip | 2131 ABKL CAT 3 | Automotive/mechanical industry:  
  - Spray-painting   
 Aeronautics:  
  - Work with composite materials   
 Other industries:  
  - Industrial cleaning, maintenance |
| TECHNI-MIX 415 | Fine touch for light chemical protection | 6-7 8 9 10 11 | 32 cm / 0.9 mm | Embossed texture | 3120 AKL CAT 3 | Automotive/mechanical industry:  
  - Spray-painting   
 Aeronautics:  
  - Work with composite materials   
 Other industries:  
  - Industrial cleaning, maintenance |
| PVC      | WEAR TIME                                         | PVC  |                  |                          |           |                                                                                |
| LATEX    | WEAR TIME                                         | LATEX|                  |                          |           |                                                                                |
| INDUSTRIAL 299 | Flock/embossed texture                          | 7-8 9 10 | 31 cm / 0.9 mm |                            |           |                                                                                |
| TRIDENT 285 | Good mechanical protection for long-lasting chemical protection | 8-9 10 | 60 cm / 1 mm | Chlorinated/reinforced grip | 2131 ABKL CAT 3 | Automotive/mechanical industry:  
  - Spray-painting   
 Aeronautics:  
  - Work with composite materials   
 Other industries:  
  - Industrial cleaning, maintenance |
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 Aeronautics:  
  - Work with composite materials   
 Other industries:  
  - Industrial cleaning, maintenance |

**PERFORMANCE INDICATORS**

> **THE 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:

- **SPLASH-PROTECTION**
- **FREQUENT CONTACT**
- **PROLONGED CONTACT** (even in immersion)

> **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-TERM USE** (chlorinated interior finish)
- **INTERMITTENT USE** (flocked interior finish)
- **CONTINUOUS USE** (textile support)
- **ULTRA COMFORT** (Exclusive MAPA Technology for increased flexibility)
### Nitrile Gloves

<table>
<thead>
<tr>
<th>RISK WEAR TIME</th>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH/THICKNESS</th>
<th>INTERIOR/EXTERIOR FINISH</th>
<th>STANDARDS</th>
<th>APPLICATIONS</th>
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</thead>
</table>
|               | Ultranitril Lite 487   | Fingertip precision for light chemical protection | 6 7 8 9 10 | 32 cm / 0.3 mm          | Chlorinated/embossed texture      | 3101      | Mechanical industry:  
  - Handling and assembly of small oily parts  
  - Machining parts using cutting oil  
  - Precision assembly  
  Other industries:  
  - Spray-painting                        |
|               | Ultranitril 485        | Good sensitivity for standard chemical protection | 6 7 8 9 10 11 | 31 cm / 0.34 mm         | Flaked/embossed texture           | 4101      |  
  Mechanical industry:  
  - Machining parts using cutting oil  
  Chemical industry:  
  - Manufacture and application of paints and varnishes  
  Other industries:  
  - Application of pesticides  
  - Maintenance                                      |
|               | Ultranitril Plus 491   | Good mechanical resistance and long-lasting chemical protection | 6 7 8 9 10 | 37 cm / 0.38 mm         | Mapa technology textile support/embossed texture | 4101      |  
  Mechanical industry:  
  - Machining parts using cutting oil  
  Chemical industry:  
  - Manufacture and application of paints and varnishes  
  Other industries:  
  - Application of pesticides  
  - Maintenance  
  - Cleaning of printing-press rollers                   |
|               | Ultranitril Plus 492   | Comfort and reinforced mechanical resistance for long-lasting chemical protection | 7 8 9 10 | 38 cm / 1.3 mm          | Textile support/smooth            | 4123      |  
  Automotive/mechanical industry:  
  - Automotive assembly  
  - Machine tool manufacture  
  - Surface treatment  
  Chemical industry:  
  - Chemical product blending  
  - Handling and transporting drums of chemical products  
  - Manipulating valves  
  - Unloading fuel and cleaning tanks  
  - Manufacturing paints and varnishes  
  Other industries:  
  - Industrial cleaning and print-press cleaning  
  - Heavy-duty packaging                                |
|               | Ultranitril 377        | Maximum comfort for standard chemical protection | 6 7 8 9 10 11 | 35.5 cm / 0.85 mm       | Mapa technology textile support/embossed texture | 3121      |  
  Automotive/mechanical industry:  
  - Automotive assembly  
  - Part degreasing  
  - Surface treatment  
  Chemical industry:  
  - Chemical product blending  
  - Handling drums of chemical products  
  - Manipulating valves  
  - Application of pesticides  
  Other industries:  
  - Laboratory tests  
  - Machine maintenance                                 |
|               | Stansolv Ak-22 381     | Ultra-long chemical protection                    | 7 8 9 10 | 46 cm / 0.55 mm         | Chlorinated/embossed texture      | 4102      |  
  Automotive/mechanical industry:  
  - Treating/degreasing metals with aggressive solvents  
  Chemical industry:  
  - Handling drums of chemical products                  |
|               | Ultranitril Performance 490 |                  | 9 8 9 10 | 39 cm / 0.55 mm         | Flocked/embossed texture           | 4102      |  
  Other industries:  
  - Application of pesticides  
  - Cleaning of printing-press rollers  
  - Maintenance  
  - Timber treatment and finishing                       |
## TECHNIC 401
- **Description:** Tactile sensitivity for light chemical protection
- **Size:** 7, 8, 9, 10
- **Length/Thickness:** 31 cm / 0.55 mm
- **Standards:** CAT 3
- **Applications:**
  - Mechanical industry: Spray-painting
  - Other industries: Preparation of industrial glues

## NEOTEX 340
- **Description:** Comfort with light chemical protection
- **Size:** 7, 8, 9, 10
- **Length/Thickness:** 38 cm / 1.15 mm
- **Standards:** CAT 3
- **Applications:**
  - Mechanical industry: Battery, pump and compressor manufacturing
  - Chemical industry: Handling and transporting chemicals
  - Other industries: Industrial cleaning, maintenance

## TECHNIC PLUS 420
- **Description:** Extremely supple with freedom of movement for standard chemical protection
- **Size:** 6, 7, 8, 9, 10
- **Length/Thickness:** 31 cm / 0.75 mm
- **Standards:** CAT 3
- **Applications:**
  - Automotive/mechanical industry: Electric accumulator and battery manufacturing
  - Chemical industry: Handling and transporting chemicals
  - Other industries: Industrial cleaning, maintenance

## TECHNIC PLUS 450
- **Description:** Comfort with standard chemical protection
- **Size:** 8, 9, 10
- **Length/Thickness:** 38 cm / 1.45 mm
- **Standards:** CAT 3
- **Applications:**
  - Automotive/mechanical industry: Engine part assembly
  - Chemical industry: Handling drums of chemical products

## SYNZDOL NK-22 382
- **Description:** Maximum comfort for standard chemical protection
- **Size:** 6, 7, 8, 9, 10, 11
- **Length/Thickness:** 35.5 cm / 0.9 mm
- **Standards:** CAT 3
- **Applications:**
  - Automotive/mechanical industry: Engine part assembly
  - Chemical industry: Handling drums of chemical products

## CHEM-PLY 407
- **Description:** Ultra-high performance chemical protection
- **Size:** 9, 10
- **Length/Thickness:** 35.5 cm / 0.75 mm
- **Standards:** CAT 3
- **Applications:**
  - Mechanical industry: Surface treatment of metals (acids)
  - Chemical industry: Handling and transporting drums of chemical products

## CHEM-PLY 414
- **Description:** Comfort and high-level chemical protection
- **Size:** 9, 10
- **Length/Thickness:** 35.5 cm / 1.35 mm
- **Standards:** CAT 3
- **Applications:**
  - Automotive/mechanical industry: Surface treatment of metals (acids)
  - Chemical industry: Handling and transporting drums of chemical products
# BUTYL/FLUOROELASTOMER

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>WEAR TIME</th>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH/THICKNESS</th>
<th>INTERIOR/EXTERIOR FINISH</th>
<th>STANDARDS</th>
<th>APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTYL</td>
<td>SHORT-TERM USE</td>
<td>BUTOFLEX 651</td>
<td>Ultimate specific chemical resistance</td>
<td>8 7 8 9 10 11</td>
<td>35 cm / 0.5 mm</td>
<td>Chlorinated/embossed texture</td>
<td>0111</td>
<td>Chemical industry: - Formulating paints, varnishes, resins and inks - Sampling chemicals Cosmetics and pharmaceutical industry: - Handling in laboratories Mechanical and electronic industry: - Metal treatment and degreasing</td>
</tr>
<tr>
<td>BUTYL</td>
<td>INTERMITTENT USE</td>
<td>BUTOFLEX 650</td>
<td>Tactile sensitivity with wear-indicator</td>
<td>8 9 10</td>
<td>30 cm / 0.5 mm</td>
<td>Chlorinated/smooth</td>
<td>1122</td>
<td>Mechanical industry: - Metal degreasing and etching Chemical industry: - Manufacturing paints and varnishes - Chemical treatments (solvents) - Gelatinoplasty - Resin and adhesive manufacturing - Handling and transporting chemicals (solvents) Other industries: - Printing - Petrochemical refining - Site pollution control</td>
</tr>
<tr>
<td>FLUORELASTOMER</td>
<td>SHORT-TERM USE</td>
<td>FLUONIT 468</td>
<td>Comfort and flexibility for extended wear</td>
<td>9 10</td>
<td>37 cm / 1.5 mm</td>
<td>Textile support/smooth</td>
<td>4102</td>
<td>Mechanical industry: - Metal degreasing and etching Chemical industry: - Manufacturing paints and varnishes - Chemical treatments (solvents) - Gelatinoplasty - Resin and adhesive manufacturing - Handling and transporting chemicals (solvents) Other industries: - Printing - Petrochemical refining - Site pollution control</td>
</tr>
<tr>
<td>FLUORELASTOMER</td>
<td>CONTINUOUS USE</td>
<td>FLUOTEX 344</td>
<td></td>
<td>9 10</td>
<td>37 cm / 1.5 mm</td>
<td>Textile support/smooth</td>
<td>4241</td>
<td>Mechanical industry: - Metal degreasing and etching Chemical industry: - Manufacturing paints and varnishes - Chemical treatments (solvents) - Gelatinoplasty - Resin and adhesive manufacturing - Handling and transporting chemicals (solvents) Other industries: - Printing - Petrochemical refining - Site pollution control - Emergency interventions on chemical accidents</td>
</tr>
</tbody>
</table>

**PERFORMANCE INDICATORS**

> **THE 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:

- SPLASH-PROTECTION
- FREQUENT CONTACT
- PROLONGED CONTACT (even in immersion)

> **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-TERM USE (chlorinated interior finish)
- INTERMITTENT USE (flocked interior finish)
- CONTINUOUS USE (textile support)
- ULTRA COMFORT (Exclusive MAPA Technology for increased flexibility)
Handling Protection

PrecisioN Work

The Mapa Professionnel Handling Protection range provides the comfort and protection hands require to carry out a wide variety of work.

Performance Indicators

We suggest that you select your gloves for precision work based on their service life in order to make your choice easier:

> 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.

![Comparison chart]

To maximise safety and comfort, MAPA precision gloves are recommended for dry or dirty environments and for jobs that call for protection against mechanical aggressions.
<table>
<thead>
<tr>
<th>Glove</th>
<th>Description</th>
<th>Size</th>
<th>Length</th>
<th>Interior/Exterior Finish</th>
<th>Standards</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>UltraNE Lite 548</td>
<td>Optimal dexterity and sensitivity for light protection</td>
<td>6 7 8 9 10 11</td>
<td>21–27 cm</td>
<td>Seamless textile support/ polyurethane coating on palm and fingers</td>
<td>3121 CAT 2</td>
<td>Automotive/mechanical industry: - Intricate assembly - Sorting small parts - Fitting small screws and fasteners  Electronics: - Assembly of electrical components - Microprocessor handling  Cosmetics and pharmaceutical industry: - Medicine manufacturing - Cosmetics preparation</td>
</tr>
<tr>
<td>UltraNE Lite 549</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oeko tex Standard 100 Compliance</td>
</tr>
<tr>
<td>UltraNE 551</td>
<td>Unbeatable for fingertip precision</td>
<td>6 7 8 9 10 11</td>
<td>21–27 cm</td>
<td>Seamless textile support/ polyurethane coating on palm and fingers</td>
<td>4131 CAT 2</td>
<td>Automotive/mechanical industry: - Intricate assembly - Sorting small parts - Fitting small screws and fasteners  Electronics: - Electrical component assembly - Microprocessor handling - High-frequency antennae riveting  Cosmetics and pharmaceutical industry: - Medicine manufacturing - Cosmetics preparation</td>
</tr>
<tr>
<td>UltraNE 550</td>
<td></td>
<td>6 7 8 9 10 11</td>
<td></td>
<td></td>
<td>4111 CAT 2</td>
<td></td>
</tr>
<tr>
<td>UltraNE Performance 553</td>
<td>Unbeatable for fingertip precision in dirty environments</td>
<td>7 8 9 10</td>
<td>21–26 cm</td>
<td>Seamless textile support/ Nitrile coating with dot embossing on palm, fingers and partially on back</td>
<td>4121 CAT 2</td>
<td>Automotive/mechanical industry: - Intricate assembly - Screwing and bolting - Pump manufacturing - Precision assembly - Sorting small parts  Other industries: - Minor maintenance tasks - Light handling in storage areas - Packaging activities</td>
</tr>
<tr>
<td>UltraNE Performance 552</td>
<td></td>
<td>6 7 8 9 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Mapa Professionnel Handling Protection range provides the comfort and protection hands require to carry out a wide variety of work.

**PERFORMANCE INDICATORS**

We suggest that you select your gloves for heavy-duty handling work based on 2 criteria in order to make your choice easier:

1. **Select the glove you need according to the ENVIRONMENT in which you work:**
   - DRY environments
   - WET environments

2. **SERVICE LIFE** combination of material and thickness of gloves to give a service life from 1 to 3.
   - 1 >> 2 >>> 3
   - Giving the most protection

**To maximise safety and comfort,** nitrile gloves for heavy-duty work are recommended for dry or dirty environments.
<table>
<thead>
<tr>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>INTERIOR/EXTERIOR FINISH</th>
<th>STANDARDS</th>
<th>APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITAN SUPERLITE 833</td>
<td>Comfort and dexterity for light handling tasks</td>
<td>7 8 9 10</td>
<td>26.5 cm</td>
<td>Textile support/3/4 nitrile coating</td>
<td>4111</td>
<td><strong>Automotive/mechanical industry:</strong> Handling mechanical parts, Parts assembly, Precision mechanical work, Sanding. <strong>Construction industry</strong> (Masonry/Plastering): Handling of bricks and breeze blocks, Plastering. <strong>Local authorities:</strong> Handling materials for use during road works, Minor general maintenance tasks. <strong>Other industries:</strong> Construction material handling, Manufacturing small electrical components.</td>
</tr>
<tr>
<td>DEXTRAM 375</td>
<td>Appropriate protection for all types of light handling activities</td>
<td>6 7 8 9</td>
<td>26 cm</td>
<td>Textile support/full nitrile coating</td>
<td>3111</td>
<td><strong>Automotive/mechanical industry:</strong> Handling mechanical parts, Precision mechanical work. <strong>Other industries:</strong> Woodwork, Sanding, Packaging.</td>
</tr>
<tr>
<td>DEXTRAM 376</td>
<td></td>
<td>8 9</td>
<td>31 cm</td>
<td></td>
<td>4121</td>
<td><strong>Automotive/mechanical industry:</strong> Handling mechanical parts, Precision mechanical work. <strong>Other industries:</strong> Handling mechanical parts.</td>
</tr>
<tr>
<td>DEXILITE 383</td>
<td>Comfort and dexterity for common handling tasks</td>
<td>6 7 8 9 10</td>
<td>26–20 cm</td>
<td>Textile support/3/4 nitrile coating</td>
<td>4111</td>
<td><strong>Mechanical industry:</strong> Handling of thick, untrimmed sheet metal, Metal shearing or cutting. <strong>Construction and public works:</strong> Construction material handling, Metal construction. <strong>Other industries:</strong> Household waste collection, Forestry, Non-ferrous mineral mining.</td>
</tr>
<tr>
<td>TITANLITE 397</td>
<td></td>
<td>7 8 9 10</td>
<td>27–31 cm</td>
<td>Textile support/3/4 nitrile coating</td>
<td>4121</td>
<td><strong>Construction and public works:</strong> Fibreboard handling, Construction material handling, Metal construction. <strong>Environment:</strong> Household waste collection, Public park maintenance. <strong>Other industries:</strong> Warehousing and receipt of goods.</td>
</tr>
<tr>
<td>TITAN 385</td>
<td>Comfort and durability for heavy-duty work</td>
<td>8 9 10</td>
<td>24-26 cm</td>
<td>Textile support/3/4 nitrile coating</td>
<td>4121</td>
<td><strong>Mechanical industry:</strong> Handling of thick, untrimmed sheet metal, Metal shearing or cutting. <strong>Construction and public works:</strong> Construction material handling, Metal construction. <strong>Other industries:</strong> Household waste collection, Forestry, Non-ferrous mineral mining.</td>
</tr>
<tr>
<td>TITAN 388</td>
<td></td>
<td>8 9 10</td>
<td>24-27 cm</td>
<td>Textile support/3/4 nitrile coating</td>
<td>4121</td>
<td><strong>Construction and public works:</strong> Fibreboard handling, Construction material handling, Metal construction. <strong>Environment:</strong> Household waste collection, Public park maintenance. <strong>Other industries:</strong> Warehousing and receipt of goods.</td>
</tr>
<tr>
<td>TITAN 391</td>
<td></td>
<td>7 8 9 10</td>
<td>24-27 cm</td>
<td>Textile support/3/4 nitrile coating</td>
<td>4121</td>
<td><strong>Construction and public works:</strong> Fibreboard handling, Construction material handling, Metal construction. <strong>Environment:</strong> Household waste collection, Public park maintenance. <strong>Other industries:</strong> Warehousing and receipt of goods.</td>
</tr>
<tr>
<td>TITAN 392</td>
<td></td>
<td>8 9 10</td>
<td>24–27 cm</td>
<td>Textile support/3/4 nitrile coating</td>
<td>4121</td>
<td><strong>Construction and public works:</strong> Fibreboard handling, Construction material handling, Metal construction. <strong>Environment:</strong> Household waste collection, Public park maintenance. <strong>Other industries:</strong> Warehousing and receipt of goods.</td>
</tr>
<tr>
<td>TITAN PLUS 393</td>
<td>Optimised comfort and maximum durability for heavy-duty handling work</td>
<td>7 8 9</td>
<td>31 cm</td>
<td>Brushed cotton lining/ full nitrile coating</td>
<td>4212</td>
<td><strong>Mechanical industry:</strong> Handling of thick, untrimmed sheet metal, Metal shearing or cutting. <strong>Construction and public works:</strong> Construction material handling, Metal construction. <strong>Other industries:</strong> Household waste collection, Forestry, Non-ferrous mineral mining.</td>
</tr>
<tr>
<td>ENDURO 328</td>
<td>Flexibility and grip for common handling tasks</td>
<td>7 8 9 10</td>
<td>24–27 cm</td>
<td>Seamless textile support/ non-slip natural latex coating on palm and fingers</td>
<td>2142</td>
<td><strong>Construction and public works:</strong> Fibreboard handling, Construction material handling, Metal construction. <strong>Environment:</strong> Household waste collection, Public park maintenance. <strong>Other industries:</strong> Warehousing and receipt of goods.</td>
</tr>
<tr>
<td>HARPO 319</td>
<td>Comfort, reinforced safety and excellent grip in wet environments</td>
<td>7 8 9</td>
<td>25–27 cm</td>
<td>Textile support/full reinforced natural latex coating on palm and fingers</td>
<td>2141</td>
<td><strong>Construction and public works:</strong> Fibreboard handling, Construction material handling, Metal construction. <strong>Environment:</strong> Public park maintenance, Forestry, Waste collection, Handling barbed wire. <strong>Other industries:</strong> Spreading fertilizer, Glass working, Quarrying, Wood working.</td>
</tr>
<tr>
<td>ENDURO 330</td>
<td></td>
<td>6 7 8 9</td>
<td></td>
<td></td>
<td>2141</td>
<td><strong>Construction and public works:</strong> Fibreboard handling, Construction material handling, Metal construction. <strong>Environment:</strong> Public park maintenance, Forestry, Waste collection, Handling barbed wire. <strong>Other industries:</strong> Spreading fertilizer, Glass working, Quarrying, Wood working.</td>
</tr>
</tbody>
</table>
Cut Protection

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

YOUR NEED

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.

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

- **DRY** and **RELATIVELY CLEAN** environments
- **OILY** and **VERY DIRTY** environments

> THE 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.

- **MODERATE** RISK
- **HIGH** RISK

> 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.

> 1 >> 2 >>> 3

3 GIVING THE MOST PROTECTION

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.
<table>
<thead>
<tr>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>STANDARDS</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>INTERIOR/ EXTERIOR FINISH</th>
<th>APPLICATIONS</th>
</tr>
</thead>
</table>
| KRYTECH 579 | Moderate protection for very intricate handling in reasonably clean environments | ISO 13997: 5.2 N CAT 2    | 6 7 8 9 10 11 | 22–27 cm | Seamless textile support from HDPE fibres/ Polyurethane on palm and fingers | Automotive/mechanical industry:  
- Assembling thin metal sheets  
- Automotive assembly  
- Finishing work  
- Handling and sorting small, sharp parts  
- Handling untrimmed parts or sheet metal  
- Precision assembly  
Paper industry:  
- Handling cardboard and paper |
| KRYNIT 563 | Moderate protection and durability for intricate handling in reasonably clean environments | ISO 13997: 5.8 N CAT 2    | 7 8 9 10 11 | 22–27 cm | Seamless textile support from HDPE fibres/Nitrile on palm and fingers | Automotive/mechanical industry:  
- Mechanical maintenance  
- Pressing metal, handling metal sheets  
Construction industry:  
- Metalworkers/ Locksmiths:  
- Handling sheet metal  
Environment:  
- Waste collection and handling  
Mechanical maintenance:  
- Handling cardboard and paper |
| KRYNIT 559 | Moderate protection and durability for intricate handling in dirty environments | ISO 13997: 8.2 N CAT 2    | 8 9 10 11 | 23–27 cm | Seamless textile support from HDPE fibres/Full nitrile coating | Automotive/mechanical industry:  
- Mechanical maintenance  
- Stacking oily panels  
- Pressing metal, handling metal sheets  
Paper industry:  
- Handling cardboard and paper  
Environment:  
- Waste collection and handling |
| KRYTECH 586 | High-performance protection for intricate handling in reasonably clean environments | ISO 13997: 18 N CAT 2    | 6 7 8 9 10 11 | 24–30 cm | Seamless textile support from HDPE fibres/ Polyurethane on palm and fingers | Automotive/mechanical industry:  
- Assembling thin metal sheets  
- Finishing work on sharp-edged parts  
- Handling metal parts  
Construction industry:  
- Roofers/Tilers/Glazers:  
- Handling and fitting windows  
Local authorities (Site visits):  
- Maintenance work with risk of cuts  
Plastics industry:  
- Post-injection material removal  
Paper industry:  
- Cutter work |
| KRYNIT 582 | High-performance protection for intricate handling in oily environments | ISO 13997: 19.1 N CAT 2  | 7 8 9 10 11 | 23–27 cm | Seamless textile support from HDPE fibres/ 3/4 nitrile coating | Automotive/mechanical industry:  
- Mechanical maintenance work  
- Pressing metal, handling metal sheets  
- Sorting small parts  
- Stacking oily panels  
- Handling glass sheets  
Paper industry:  
- Cutter work  
Other industries:  
- Maintenance in wet environments  
- Maintenance |
Cut Protection

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

YOUR NEED

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.

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

- **DRY** and **RELATIVELY CLEAN** environments
- **WET** environments
- **OILY** and **VERY DIRTY** environments

> THE RISK:
The higher the performance level, the better the glove resists the combined effects of the object’s sharpness and the pressure applied.

- **MODERATE RISK**
- **HIGH RISK**

> SERVICE LIFE:
Combination of material and thickness of gloves to give a service life from 1 to 3.

> 1 >> 2 >>> 3

3 GIVING THE MOST PROTECTION
<table>
<thead>
<tr>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>STANDARDS</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>INTERIOR/EXTERIOR FINISH</th>
<th>APPLICATIONS</th>
</tr>
</thead>
</table>
| KROTECH FOOD 828 | Reinforced cut protection for the food industry Ambidextrous                |                                 | 7 8 9 10 | 27–33 cm | Seamless textile support from Spectra®*  | Food industry:  
- Cutting meat and fish  
- Deboning, slicing  
- Food handling  
  see Food Expert range |
| KRONIT 386     | Moderate protection for heavy-duty handling in dry and relatively clean environments | ISO 13997: 11.3 N               | 7 9  | 26–27 cm | Textile support made from para-aramide fibres/Full nitrile coating/Pebbled | Environment:  
- Sorting metal and plastic waste |
| KRONIT 387     | High-performance protection for handling heavy, sharp objects in dry and relatively clean environments | ISO 13997: 20.1 N               | 7 8 9 10 11 | 23–26 cm | Seamless textile support from superior strength fibres/Leather layer on palm with reinforced thumb/ index | Automotive/mechanical industry:  
- Handling untrimmed parts  
- Handling parts post-press  
- Handling sheet metal  
- Metal working  
- Cutting strips (plasma, etc.) |
| KROMET 832     | High-performance protection for handling heavy or sharp objects in wet environments | ISO 13997: 20.4 N               | 7 8 9 10 11 | 23–26 cm | Seamless textile support from superior strength fibres/Latex grip on palm and fingers/Embossed texture | Ceramic and plastics industry, composite industries:  
- Handling of composite materials after heat processing  
- Post-injection handling of hot plastic parts |
| KROFLEX 840    | Long-lasting chemical protection and cut protection combined                  |                                 | 7 8 9 10 11 | 32 cm | Multi-layer technology: combination of superior strength fibres and nitrile/Textile support | Automotive/mechanical industry:  
- Metal rolling, stamping and assembly  
- Sheet metal  
- Cutting aluminium strips |
| KRONIT-PROOF 395 |                                                                   |                                 | 7 8 9 10 11 | 32 cm | Multi-layer technology: combination of superior strength fibres and nitrile/Textile support | Other industries:  
- Collection and sorting of industrial and household waste |

*Honeywell registered brand
**Thermal Protection**

The Mapa Professionnel Thermal Protection range provides excellent comfort and protection to hands whenever work situations require.

### PERFORMANCE INDICATORS

We suggest that you select your gloves based on three criteria in order to make your choice easier:

**> TEMPERATURE:**

- **PROTECTION AGAINST THE COLD**
- **STANDARD** PROTECTION UP TO 150 °C
- **HIGH-LEVEL** PROTECTION ABOVE 150 °C

**> ENVIRONMENT:**

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

- **DRY** environments
- **WET** environments
- **CHEMICAL** environments
- **MODERATELY OILY** environments

**> CONTACT TIME:**

Performance depends on the contact time with the part at a given temperature.

<table>
<thead>
<tr>
<th>Contact Type</th>
<th>80 °C</th>
<th>100 °C</th>
<th>125 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHORT CONTACT</td>
<td>70 s</td>
<td>30 s</td>
<td>20 s</td>
</tr>
<tr>
<td>INTERMEDIATE CONTACT</td>
<td>80 s</td>
<td>45 s</td>
<td>25 s</td>
</tr>
<tr>
<td>PROLONGED CONTACT</td>
<td>1 min 50</td>
<td>1 min</td>
<td>38 s</td>
</tr>
</tbody>
</table>

Take a look at the thermal insulation curves for all of our gloves at [www.mapa-pro.com](http://www.mapa-pro.com)

**THE TEMP-SEA GLOVE** gives protection against both convective (or ambient) cold and contact cold. Ideal for handling cold objects in low temperature environments, e.g. handling in cold storage rooms.

In addition, the Temp-Sea glove is **100% liquidproof** according to the EN 374 standard and is therefore **suitable for all dry or wet environments**.
<table>
<thead>
<tr>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>MATERIAL/ INT. FINISH/ EXT. FINISH</th>
<th>STANDARDS</th>
<th>APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMP-DEX 710</td>
<td>High dexterity and thermal protection</td>
<td>7–9</td>
<td>24–28 cm</td>
<td>Seamless textile support/Nitrile coating with dot embossing on palm and fingers</td>
<td>4111</td>
<td>Ceramics and plastics industries, composite industries: - Handling of composite materials after heat processing (Heating engineers/Plumbers): - Maintenance of pipes and ducts Other industries: - Handling of hot piping - Handling of hot steel after welding - Handling of moulds in the ceramic industry - Handling of sheet metal after heat stamping Maximum recommended temperature: 125 °C</td>
</tr>
<tr>
<td>TEMP-Dex Plus 720</td>
<td>Dexterity and resistance to cuts for optimised thermal protection</td>
<td>7–9</td>
<td>24–28 cm</td>
<td>Seamless textile support from aramide fibres/Nitrile coating with dot embossing on palm and fingers</td>
<td>4343</td>
<td>Rubber industry: - Vulcanization, demoulding, calendering, etc. Mechanical industry: - Working with hot, sharp and oily parts Other industries: - Handling of hot piping - Handling of hot steel after welding - Handling of moulds in the ceramic industry - Handling of metals after heat treatment Maximum recommended temperature: 125 °C</td>
</tr>
<tr>
<td>TEMP-COOK 476</td>
<td>Hygienic with high-temperature thermal protection 100% liquidproof</td>
<td>9–11</td>
<td>45 cm</td>
<td>Knitted thermal protection / Embossed texture</td>
<td>4443 + 111</td>
<td>Bakers: - Removing trays from ovens Catering industry: - Removing dishes from warming ovens - Removing hot dishes from ovens (wet or dry) - Removing objects from autoclaves or steam ovens Food industry: - Pre-cooking Local authorities (Catering): - Removing hot dishes from ovens (wet or dry) - Removing objects from autoclaves or steam ovens see Food Expert range Maximum recommended temperature: 150 °C</td>
</tr>
<tr>
<td>TEMP-TEC 332</td>
<td>Effective thermal insulation and multi-purpose chemical resistance</td>
<td>8–9</td>
<td>35.5 cm</td>
<td>Neoprene/ Knitted thermal protection/ Pebbled</td>
<td>2212 + 111</td>
<td>Mechanical industry: - Chemical treatment of metals - Oil quenching of steel Petrochemical industry: - Hot, petrochemical product sampling Rubber industry: - Polymer extrusion Other industries: - Boiler room work - Handling of hot piping - Handling of moulds in the ceramic industry - Manufacture of adhesives - Manufacture of insulating electric wires - Road works - Steam cleaning Maximum recommended temperature: 175 °C</td>
</tr>
<tr>
<td>TEMP-TECH 725</td>
<td>A classic for thermal protection in dry environments</td>
<td>9–10</td>
<td>30 cm</td>
<td>Seamless textile support from aramide and cotton fibres</td>
<td>244X</td>
<td>Glass industry: - Handling glass sheets Other industries: - Heat treatment up to 250 °C (autoclaves, etc.) - Removal of parts from ovens, furnaces or autoclaves and sorting Maximum recommended temperature: 250 °C</td>
</tr>
<tr>
<td>TEMP-SEA 770</td>
<td>Thermal insulation 100% liquidproof to protect from extreme contact cold</td>
<td>9–10</td>
<td>30 cm</td>
<td>Jersey support, lined with woolen fleece/ Pebbled</td>
<td>4312</td>
<td>Fishing and work at sea: - Handling produce Transport: - Handling of liquids at low temperatures (water, oil, hydrocarbons, etc.) Other industries: - Handling in refrigerated or open-air warehouses - Maintenance in wet or cold environments</td>
</tr>
</tbody>
</table>
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 Professionnel 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 Professionnel 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.

THEN CHECK YOUR GLOVE FOR USE AND COMFORT:

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.

MATERIALS GUIDE FOR DISPOSABLE AND LIQUIDPROOF GLOVES:

> Natural latex: flexibility, comfort and value for money.

> Nitrile: strength, durability, handling of oily foods and no risk of allergies.
### Important:

- Nonalcoholic beverages or alcoholic strength lower than 5% vol.
- More than 5% by vol.
- Starches, cereals, flour, meal, pasta.
- Biscuits, pastry, cakes and other bakers’ wares, dry, sugar and confectionery products in solid form; without fatty substances.
- Biscuits, pastry, cakes and other bakers’ wares, dry, sugar and confectionery products in solid form; with fatty substances.
- Chocolate and substitutes, coated products.
- Pastry, cakes and other bakers’ wares, dry, without fatty substances, confectionery products in moist paste form, honey, syrups.
- Confectionery products in paste form with fatty substances.
- Whole, fresh or chilled; dried or dehydrated, shelled or dried nuts.
- Processed, cut, in the form of pâtes, paste or preserved in an aqueous medium.
- Processed in an alcoholic medium (> 5% Vol).
- Processed in an oily medium.
- Shelled and roasted nuts.
- Nuts in paste or cream form.
- Animals or vegetable, natural or treated.
- Water emulsions in oil (margarine, butter, etc.).
- Crustaceans and molluscs not naturally protected by their shells.
- Preparation of fresh, chilled, salted, smoked fish or in the form of paste.
- All types of meats, fresh, chilled, salted, smoked, in the form of paste or cream.
- Processed meat products ( ham, bacon, etc.).
- Preserved and part preserved meat and fish in an oily medium.
- Preserved and part preserved meat and fish in an oily medium.
- Eggs, egg yolks, whites of eggs in all forms.
- Whole, skimmed or partly dried milk.
- Fermented milk (yoghurt, butter milk, etc.).
- Cream and sour cream.
- Whole cheeses with non edible form.
- Other cheeses.
- Rennet in liquid or viscous form.
- Powdered or dried rennet.
- Sauces without fatty substances on the surface.
- Sauces from oil in water emulsions ( mayonnaise, salad creams, etc.).
- Sauces containing oil and water forming two distinct layers.
- Mustard.
- Vinegar.
- Salt.
- Sandwiches, toasted bread and the like with fatty substances on the surface.
- Sandwiches, toasted bread and the like but without fatty substances on the surface.
- Soups, powdered or dried food preparations with fatty substances on the surface.
- Soups, powdered or dried food preparations without fatty substances on the surface.
- Soups, liquid or paste food preparation with fatty substances on the surface.
- Soups, liquid or paste food preparation without fatty substances on the surface.
- Fried or roasted foods of vegetable origin ( fried potatoes, fritters, etc.).
- Fried or roasted foods of animal origin.
- Dried foods with fatty substances on the surface.
- Dried foods without fatty substances on the surface.
- Herbs, spices, aromatic herbs, coffee and coffee substitutes, granulated or powdered.
- Liquid coffee extracts.
- Cocoa powder.
- Cocoa paste.
- Concentrated extracts of an alcoholic strength equal to or exceeding 5% vol.
- Yeasts and raising agents in paste form.
- Dried yeasts and raising agents.
- Frozen or deep frozen foods.
- Icecreams.
- YOU ARE HANDLING

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<thead>
<tr>
<th>Solo 988 / 995</th>
<th>Solo 987</th>
<th>Solo 687</th>
<th>Superfood 177</th>
<th>Superfood 165</th>
<th>Jerseite 308</th>
<th>Horpan 328</th>
<th>Optint 472</th>
<th>Ultrasound 475/495</th>
<th>Temp-Cook 476</th>
<th>Krotech Food 828*</th>
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* IMPORTANT: non-coated fabric gloves must be used as undergloves, otherwise they are only suitable for contact with dry food. Worn as an underglove, the Krotech Food 828 is suitable for all uses. Only contact between the overglove and the food needs to be checked.
<table>
<thead>
<tr>
<th>FINISHES</th>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH/THICKNESS</th>
<th>INTERIOR/EXTERIOR FINISH</th>
<th>STANDARDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural latex Powdered</td>
<td>SOLO 988</td>
<td>The perfect protection for light food handling</td>
<td>6 7 8 9</td>
<td>23 cm / 0.10 mm</td>
<td>Powdered/smooth</td>
<td>CAT 3</td>
</tr>
<tr>
<td>Natural latex Chlorinated</td>
<td>SOLO 995</td>
<td></td>
<td></td>
<td>24-26 cm / 0.10 mm</td>
<td>Chlorinated/Smooth with pebbled fingertips</td>
<td>CAT 3</td>
</tr>
<tr>
<td>Nitrile Chlorinated</td>
<td>SOLO 967</td>
<td>Great value for light handling of oily food</td>
<td>6 7 8 9</td>
<td>24.5 cm / 0.08 mm</td>
<td>Chlorinated/Chlorinated, pebbled, with pebbled fingertips</td>
<td>CAT 1</td>
</tr>
<tr>
<td>Nitrile Chlorinated</td>
<td>SOLO 997</td>
<td>The perfect protection for light handling of oily food</td>
<td>6 7 8 9</td>
<td>24.5 cm / 0.10 mm</td>
<td>Chlorinated/Smooth with pebbled fingertips</td>
<td>CAT 3</td>
</tr>
<tr>
<td>Nitrile</td>
<td>TEMP-COOK 476</td>
<td>Hygiene and effective thermal protection 100% liquidproof</td>
<td>9 (S)/11 (M)/12 (L)</td>
<td>45 cm / NS</td>
<td>Knitted thermal protection / Embossed texture</td>
<td>CAT 3</td>
</tr>
<tr>
<td>Seamless textile support from Spectra®*</td>
<td>KROTECH FOOD 828</td>
<td>Reinforced cut protection for the food industry Ambidextrous</td>
<td>7 8 9 10</td>
<td>27-33 cm / NS</td>
<td>NS / Non-coated</td>
<td>CAT 2</td>
</tr>
</tbody>
</table>

* Honeywell registered trademark
<table>
<thead>
<tr>
<th>FINISHES</th>
<th>SERVICE LIFE</th>
<th>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH/THICKNESS</th>
<th>INTERIOR/EXTERIOR FINISH</th>
<th>STANDARDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural latex</td>
<td></td>
<td>SUPERFOOD 177</td>
<td>Dexterity and flexibility</td>
<td>6 7 8 9 10</td>
<td>31 cm / 0.40 mm</td>
<td>Chlorinated/embossed texture</td>
<td>CAT 3</td>
</tr>
<tr>
<td>Chlorinated</td>
<td></td>
<td>SUPERFOOD 165</td>
<td>Flexibility and precision dexterity</td>
<td>5 6 7 8 9 10</td>
<td>30.5 cm / 0.29 mm</td>
<td>Flocked/Embossed texture</td>
<td>CAT 1</td>
</tr>
<tr>
<td>Natural latex</td>
<td></td>
<td>JERSETTE 308</td>
<td>Comfortable and suitable for long-term work</td>
<td>5 6 7 8 9 10</td>
<td>30.3 cm / 1.15 mm</td>
<td>Textile support/Smooth</td>
<td>CAT 2</td>
</tr>
<tr>
<td>Textile support</td>
<td></td>
<td>HARPON 326</td>
<td>Comfort and safety for gripping bulky, slippery foods</td>
<td>7 8 9 10</td>
<td>32 cm / 1.35 mm</td>
<td>Textile support/Reinforced grip</td>
<td>X1XXX</td>
</tr>
<tr>
<td>Natural latex</td>
<td></td>
<td>OPTINIT 472</td>
<td>Fingertip precision for handling oily foods</td>
<td>6 7 8 9 10</td>
<td>31 cm / 0.20 mm</td>
<td>Chlorinated/Pebbled</td>
<td>CAT 3</td>
</tr>
<tr>
<td>Textile support with grip</td>
<td></td>
<td>ULTRAFOOD 475</td>
<td>Liquidproof and strong for handling oily foods</td>
<td>6 7 8 9 10</td>
<td>31 cm / 0.34 mm</td>
<td>Flocked/Embossed texture</td>
<td>CAT 2</td>
</tr>
<tr>
<td>Nitrile</td>
<td></td>
<td>ULTRAFOOD 495</td>
<td>The lasting solution for safe handling of oily foods</td>
<td>32 cm / 0.38 mm</td>
<td></td>
<td></td>
<td>CAT 3</td>
</tr>
<tr>
<td>Chlorinated</td>
<td></td>
<td>OPTINIT 472</td>
<td>Fingertip precision for handling oily foods</td>
<td>6 7 8 9 10</td>
<td>31 cm / 0.20 mm</td>
<td>Chlorinated/Pebbled</td>
<td>CAT 3</td>
</tr>
<tr>
<td>Flocked</td>
<td></td>
<td>ULTRAFOOD 495</td>
<td>The lasting solution for safe handling of oily foods</td>
<td>32 cm / 0.38 mm</td>
<td></td>
<td></td>
<td>CAT 3</td>
</tr>
</tbody>
</table>

**Liquid-proof Protection**

**Short-term use** (opt for a chlorinated interior finish)

**Intermittent use** (opt for a flocked interior finish)

**Continuous use** (opt for a fabric-lined finish to limit the effects of perspiration)
Ensuring the protection of both operators and the products they handle, the Mapa AdvanTech range was 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, each of these gloves satisfy all the quality criteria necessary for work in controlled and confined environments.

**Quality guaranteed at every stage of production:**

- Mapa AdvanTech uses its own post-manufacturing cleaning process and clean rooms to maintain a level of product and packaging quality that meets requirements for cleanliness.
- 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 liquid-resistance defect, as well as inflation tested under inspection lamps so as to ensure user safety.
- The chemical resistance checks comply with ASTM standards and EN 374-3, providing the users with the information they need to choose suitable gloves 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>GLOVE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>MATERIAL/ INT. FINISH/ EXT. FINISH</th>
<th>STANDARDS</th>
<th>APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENSITRON 515</td>
<td>The comfort and flexibility of latex for short-term operations</td>
<td>7  7 1/2  8</td>
<td>30 cm / 0.20 mm</td>
<td>Latex/chlorinated/ chlorinated</td>
<td></td>
<td>Electronics: Photonmask assembly, integrated circuit assembly, CD production, placement of thin layers</td>
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<td>Health: Pharmaceutical manufacturing, Manufacturing of medical equipment</td>
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<td>Laboratories: Research, analysis, manipulation of precision parts, optical processes</td>
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<tr>
<td>NIPROTECT 529</td>
<td>Reinforced mechanical resistance for short-term operations</td>
<td>6  7  8  9  10  11</td>
<td>30 cm / 0.10 mm</td>
<td>Nitrile/ Chlorinated/ Smooth with pebbled fingertips</td>
<td>CAT 3</td>
<td>Electronics: Assembly of CD/DVD players, integrated circuits, CD production, flat screen assembly</td>
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<td>Health: Manufacturing of medical equipment, Manufacturing of pharmaceutical products</td>
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<td>Laboratories: Research, analysis, Handling of precision parts</td>
</tr>
<tr>
<td>STANSOLV 519</td>
<td>The chemical protection of nitrile combined with excellent mechanical resistance</td>
<td>6  7  8  9  10  11</td>
<td>33 cm / 0.30 mm</td>
<td>Nitrile/ chlorinated/ chlorinated</td>
<td></td>
<td>All applications requiring a reduced incidence of particles and extractables, combined with resistance to solvents, abrasion and puncture:</td>
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<td>- Silicon handling</td>
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<td>- Production of ultra-pure chemicals</td>
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<td>- Solvent handling</td>
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<td>- Blending operations</td>
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<tr>
<td>TRIONIC 517</td>
<td>A triopolymer exclusive that offers 100% comfort for optimal mechanical and chemical resistance</td>
<td>6  7  8  9  10  11</td>
<td>36 cm / 0.50 mm</td>
<td>Mixed formula latex, neoprene and nitrile/ Chlorinated/ Embossed texture</td>
<td>CAT 3</td>
<td>Electronics: Manufacturing integrated circuits, manufacturing semiconductors, handling of silicon wafers in acid baths</td>
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<td>Laboratory: Blending, handling and transport of chemicals, handling under fume hood</td>
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<tr>
<td>ADVANTECH 565</td>
<td>The most comprehensive solution: resistance to alpha rays, mechanical and chemical protection</td>
<td>10 Ø* 178 mm</td>
<td>80 cm / 0.50 mm</td>
<td>Polyurethane/ Smooth/ Smooth</td>
<td>CAT 3</td>
<td>- Dry box glove handling</td>
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<td>- Handling aggressive parts</td>
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<td>- Operations in isolators, in the pharmaceutical industry</td>
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<td>- Stripping of parts in confined settings</td>
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For more information: www.mapa-pro.com

> Selection guides for each segment to help you choose the right glove.
> Also with a comprehensive, constantly updated database to protect you against chemical risks,
> an advanced search engine to find a product based on your own criteria,
> a product comparison tool,
> a tool to help you locate your nearest Mapa Professionnel distributor,
> and, of course, news, downloadable documents, a technical glossary, an FAQ section, etc.

If you have a Smartphone, scan this QR Code to visit the Mapa Professionnel download centre.

There you will find documentation for all of our existing products, which you can read on your Smartphone or easily share with your contacts:

Product brochures, data sheets, EC declarations of conformity, chemical resistance tables, thermal insulation curves, food safety test certificates and reports, etc.