



CATALOGUE 2020

# PROTECTIVE GLOVES

A solution  
for every hand  
that works

**MAPA**<sup>®</sup>  
PROFESSIONAL

HOW TO READ THIS CATALOGUE?

Step 1: Identify your protection needs

 **PAGE 10**  
Chemical protection

 **PAGE 28**  
Mechanical protection

 **PAGE 44**  
Thermal protection

 **PAGE 46**  
Food expert range

 **PAGE 54**  
Critical environment protection








Step 2: Define the type of glove

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 3: Select the most appropriate reference


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


MATERIAL PVC		MATERIAL NATURAL LATEX				
frequent CONTACT		splashes				
continuous WEAR		short WEAR		intermittent WEAR		
<b>TELSOL 361</b>  Long-lasting mechanical protection against low chemical hazards	<b>TELSOL 351</b>  Comfort, flexibility and mechanical protection for low chemical hazards	<b>VITAL 174</b>  Dexterity and flexibility for light aggressive environments	<b>VITAL 520</b>  Dexterity and flexibility in light aggressive environments	<b>VITAL 115</b>  Precision dexterity in non-aggressive environments	<b>VITAL 210</b>  The effective response to contact with aggressive detergents	<b>VITAL 180</b>  Dexterity and better resistance to oils and greases


How to read the pictograms?


 **MANUFACTURE**  
Fitting, Assembling a part  
Paint spraying  
Handling chemical compounds  
Manufacturing composites  
Handling chemical drums


 **TRANSPORT**  
Maintenance of transport routes:  
rail - automobile - maritime - air


 **FOOD AND DRINK INDUSTRY**  
Food handling and preparations


 **ENERGY**  
Nuclear, wind turbine,  
petrochemical industries

 **AERONAUTICS**  
Work with composite materials (resins)

 **HEALTH**  
Pharmaceutical preparation  
Medical manufacturing  
Research  
Hospitals and clinics

 **CONSTRUCTION INDUSTRY**  
Handling construction materials,  
glazing

 **CLEANING**  
Handling of detergents  
Industrial cleaning  
Small general maintenance jobs

 **MARITIME**  
Cultivation of fishing products

A SOLUTION FOR EVERY HAND THAT WORKS

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.

PROTECTION OF THE HAND  
**MAPA PROFESSIONAL**  
BEYOND THE GLOVE

We have a team dedicated to understanding our users' needs and to designing solutions suitable for use at workstations for most industries.



**1 Customer Engineering Department**  
stc.mapaspontex@newellco.com



**2 R&D centres**  
(60 engineers and technicians)



**Integrated production**  
(3 factories worldwide)



**1 Application laboratory**  
With tests exclusive to MAPA Professional which reproduce actual conditions of use over and above those specified in the framework (Grip, durability, dexterity, contact heat).



# Regulations 2016

## Why is PPE regulated?

All professional gloves are personal protection equipment and must comply with European standard 2016/425. The purpose of these regulations is to guarantee a safe working environment for the user of the PPE along with public health. This means that PPE must provide the level of protection required without compromising the user's health. To meet this requirement, PPE are defined by a harmonised European standard. This governs the degree of protection of the PPE along with the comfort and satisfaction of the user. It also ensures that the PPE can circulate freely within the European Union without reducing the level of protection required due to unfair competition.

## Regulation 2016/425

This regulation was implemented on 21 April 2018. Directive 89/686 was cancelled from this date. It relates to all citizens of the EU. It does not need to be transposed into national law and so is the same in all countries of the European Union.

## DIRECTIVE 89/686 REPLACED BY REGULATION 2016/425

### Main differences:

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 89/656/EEC (use) lays down the requirements that employers must meet with regard to the supply and use of PPE by their employees. Directive (EU) 2016/425 stipulates the essential requirements for marketing protective gloves within the European Union.

The whole Mapa Professional range is certified as compliant with these criteria and carries the CE marking.

# CERTIFICATION CATEGORIES CE

## CAT 1

The manufacturer is responsible for the conformity of their products with respect to the essential requirements of the directive.

## CAT 2

Certificate of conformity obtained from a notified body.

## CAT 3

Certificate of conformity and regular production inspections on the manufacturer's premises by the notified bodies.



# How to read the standards?

The following pictograms, defined according to European standards, can help you understand the performance characteristics of a glove:

MECHANICAL PROTECTION

MECHANICAL HAZARDS  
EN 388

4 3 4 3 C (P)

Protection against impacts (P)

From A to F  
Resistance to cutting  
(X if not applicable\*)

From 0 to 4  
Puncture resistance

From 0 to 4  
Tear resistance

From 0 to 5  
Cutting resistance

From 0 to 4  
Abrasion resistance

CHEMICAL PROTECTION

SPECIFIC CHEMICAL PROTECTION  
EN ISO 374-1

EN ISO 374-1 / TYPE A  
U V W X Y Z  
Resistance to penetration EN 374-2  
Delay time for permeation ≥ 30 min  
for at least 6 chemical products on the new list (EN 16523-1)

EN ISO 374-1 / TYPE B  
X Y Z  
Resistance to penetration EN 374-2  
Delay time for permeation ≥ 30 min  
for at least 3 chemical products on the new list (EN 16523-1)

EN ISO 374-1 / TYPE C  
Resistance to penetration EN 374-2  
Delay time for permeation ≥ 10 min  
for at least 1 chemical product on the new list (EN 16523-1)

Degradation test according to EN374-4 is undertaken without performance level requirement

LETTER CODE

A Methanol  
B Acetone  
C Acetonitrile  
D Dichloromethane  
E Carbon disulphide  
F Toluene

G Diethylamine  
H Tetrahydrofuran  
I Ethyl acetate  
J n-Heptane  
K Sodium hydroxide 40%  
L Sulphuric acid 96%

M Nitric Acid 65 %  
N Acetic Acid 99%  
O Ammonia 25%  
P Hydrogen Peroxide 30%  
S Hydrogen Fluoride 40%  
T Formaldehyde 37%

EN ISO 374-5 : 2016  
Protective gloves against micro-organisms. The gloves must pass the penetration resistance test in compliance with standard EN 374-2: 2014. The option to lay claim to protection against viruses was added if the glove passed test ISO 16604: 2004 (method B).

EN ISO 374-5  
For gloves protecting against bacteria and fungi.

EN ISO 374-5  
For gloves protecting against bacteria, fungi and viruses.

VIRUS

OTHER

RADIOACTIVE CONTAMINATION  
EN 421

WITH NO PERFORMANCE LEVELS

THERMAL PROTECTION

COLD HAZARD  
EN 511

3 2 1

From 0 or 1  
Water permeability

From 0 to 4  
Contact cold resistance

From 0 to 4  
Convective cold resistance

HEAT AND FIRE  
EN 407

1 2 3 4 3 4

From 0 to 4  
Resistance to large splashes of molten metal

From 0 to 4  
Resistance to small splashes of molten metal

From 0 to 4  
Radiant heat resistance

From 0 to 4  
Convective heat resistance

From 0 to 4  
Contact heat resistance

From 0 to 4  
Fire behaviour

50 \*X: the test does not apply or the glove has not been tested

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



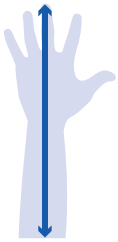
**Rolled cuff**  
Increased resistance to tearing when putting gloves on



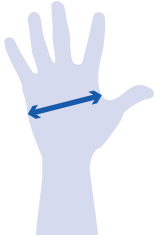
**Scalloped cut**  
Increased service life of the glove

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.

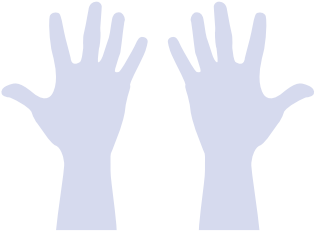


**Glove thickness**  
This influences the user's dexterity and the performance of the glove. Varies between 0.1 and 2.5 mm.

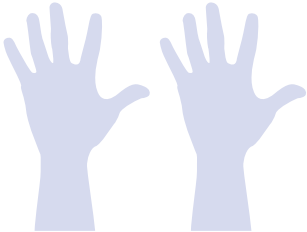


Anatomical or ambidextrous gloves

**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



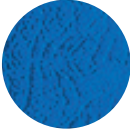
**Smooth**  
Does not mark the handled objects



**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 going 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)



**GRIP&PROOF**  
Excellent grip in oily environments combined with liquidproof protection



**RESICOMFORT**  
Comfort and allows hand to breathe without compromising durability



UNDERSTANDING THE SPECIAL FEATURES OF A GLOVE TO IMPROVE CHOICE

GRIP & PROOF

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



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

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** with or without cutting for **oily** or **greasy** environments. This technology can be found in our **ULTRANE** and **KRYTECH** ranges

RESI COMFORT

Our **RESICOMFORT** coating technology offers the following benefits for precise handling operations in a dry environment:

COMFORT AND BREATHABILITY

- Excellent dexterity at the fingertips
- Feels like a second skin
- Suppleness and Flexibility
- Reduction in perspiration

RESISTANCE

- Prolonged use guaranteed by our exclusive process
- Resistance to rubbing through the highly durable coating
- Optimisation of expenses




- No DMF
- Oekotex
- Silicon-free
- Guaranteed without painting refusal
- Washable

Thanks to our expertise and reliable usage tests, Mapa Professional has designed a range of gloves with or without cutting protection for dry environments, including the **RESICOMFORT** technology which combines **comfort** and **breathability** without compromising on strength and durability. This technology can be found in our **ULTRANE** and **KRYTECH** ranges

NEW PRODUCTS

Product specially developed for precise and repetitive tasks where dexterity, comfort and durability are required



RESI COMFORT

ULTRANE 541

CUT LEVEL A

**COMFORT & BREATHABILITY**

- High degree of flexibility through fine knitting (Gauge 15) and flexible coating
- Second skin effect for excellent dexterity
- High breathability

**DURABILITY**

- An optimised dipping process which provides full control over the properties of the coating for prolonged use of the product


**ADVANTAGES**

- Silicon - free
- No DMF
- Oekotex which guarantees the absence of certain substances
- No painting refusal

Packaging 12 pairs per bag  
96 pairs per box

Washability Once at 40°C

Products especially developed for precise or repetitive tasks where dexterity, comfort and durability are required with a high degree of cutting protection



RESI COMFORT

KRYTECH 583

CUT LEVEL C

**COMFORT**

- High degree of flexibility due to a fine liner and flexible coating
- Pleasant skin contact thanks to plated knitting


**RESISTANCE**

- An optimised dipping process which provides full control over the properties of the coating

**ADVANTAGES**

- Silicon - free
- No DMF
- Oekotex which guarantees the absence of certain substances
- No painting refusal

Packaging Individually packed  
12 pairs per bag  
48 pairs per box



GRIP & PROOF

KRYTECH 585

CUT LEVEL C

**COMFORT**

- High degree of flexibility due to a fine liner and flexible coating
- Pleasant skin contact thanks to plated knitting

**RESISTANCE**


- An optimised dipping process which provides full control over the properties of the coating

**ADVANTAGES**

- Silicon - free
- No DMF
- Oekotex which guarantees the absence of certain substances
- No painting refusal

Packaging Individually packed  
12 pairs per bag  
48 pairs per box

Washability 3 times at 60°C



GRIP & PROOF

KRYTECH 622

CUT LEVEL E

**COMFORT**

- High degree of protection against cutting without compromising comfort and dexterity
- Knitted and plated without seams for good dexterity and flexibility
- High breathability
- Tactile performance

**RESISTANCE**

- Good durability which provides better productivity and optimises your costs

**ADVANTAGES**

- Silicon - free
- Oekotex which guarantees the absence of certain substances
- No painting refusal

Packaging Individually packed  
12 pairs per bag  
48 pairs per box

# 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](http://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.

### 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 product, i.e. the degree of deterioration of the glove shown by an alteration of its physical properties (e.g. softening, hardening, etc.).

## 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 ▼			2 Determine the most appropriate protective material for your specific application. ▼			3 Choose your gloves according to the level of protection you require. <b>next pages</b> ►		
YOU ARE HANDLING	CAS	EN374	PVC	NATURAL LATEX	NITRILE	POLY-CHLOROPRENE	BUTYL	FLUORO-ELASTOMER
			Common polymers*			Specific polymers**		
			RECOMMENDATION BY MAPA PROFESSIONAL			● Light protection	●● Strong protection	●●● Optimal protection
ALCOHOLS (methanol 100%)	67-56-1	A		●	●	●●	●●●	●●
KETONE (acetone 100%)	67-64-1	B		●		●	●●●	
NITRILES (acetonitrile methyl cyanide 99%)	75-05-8	C				●	●●●	●
CHLORINATED SOLVENTS (methylene chloride/dichloromethane 99%)	75-09-2	D						●
SULPHUR-BASED CHEMICALS (carbon disulphide 100%)	75-15-0	E			●			●●●
AROMATIC SOLVENTS (toluene 100%)	108-88-3	F			●			●●●
AMINES (diethylamine 98%)	109-89-7	G			●			●●
ETHERS (tetrahydrofuran (THF) 100%)	109-99-9	H			●	●	●	●
ESTERS (ethyl acetate 99%)	141-78-6	I			●	●	●●●	
ALIPHATIC SOLVENTS (heptane 99%)	142-82-5	J	●		●●●	●●		●●●
ALKALIS (sodium hydroxide (soda) 40%)	1310-73-2	K	●●●	●●●	●●●	●●●	●●●	●●●
OXIDISING ACIDS (sulphuric acid 96%)	7664-93-9	L	●	●		●●	●●●	●●●
OXIDIZING ACID (nitric acid 65%)	7697-37-2	M	●	●●●		●●●	●●●	●●●
ORGANIC ACID (acetic acid 99%)	64-19-7	N	●	●		●●●	●●●	●●
ORGANIC BASE (ammonia 25%)	1336-21-6	O	●	●	●●		●●●	●●
PEROXYDE (hydrogen peroxide 30%)	7722-84-1	P	●●●	●●●	●●●	●●●	●●●	●●●
HYDROFLUORIC ACID (hydrogen fluoride 40%)	7664-39-3	S		●●●		●●●	●●●	●●
ALDEHYDE (formaldehyde 37%)	50-00-0	T	●●●	●●●	●●●	●●●	●●●	●●●

\* The most frequently used materials for manufacturing chemical protection gloves.  
\*\* Protection targeted against certain aggressive chemical product families, these are more stringent than for standard materials.

STRENGTHS	Value for money Mechanical strength	Excellent flexibility Good puncture and tearing resistance Adapted to cold environment	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	



# CHEMICAL PROTECTION


## TELSOL - VITAL 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 PVC		MATERIAL NATURAL LATEX					
 <b>frequent CONTACT</b>		 <b>splashes</b>					
 <b>continuous WEAR</b>		 <b>short WEAR</b>		 <b>intermittent WEAR</b>			
<div><b>TELSOL 361</b></div> <div></div> <div>Long-lasting mechanical protection against low chemical hazards</div>	<div><b>TELSOL 351</b></div> <div></div> <div>Comfort, flexibility and mechanical protection for low chemical hazards</div>	<div><b>VITAL 174</b></div> <div></div> <div>Dexterity and flexibility for light aggressive environments</div>	<div><b>VITAL 520</b></div> <div></div> <div>Dexterity and flexibility in light aggressive environments</div>	<div><b>VITAL 115</b></div> <div></div> <div>Precision dexterity in non-aggressive environments</div>	<div><b>VITAL 210</b></div> <div></div> <div>The effective response to contact with aggressive detergents</div>	<div><b>VITAL 180</b></div> <div></div> <div>Dexterity and better resistance to oils and greases</div>	
<div>Internal finish Textile support</div> <div>External finish Pebbled</div> <div>Size 9 10</div> <div>Length 35 cm</div> <div>Thickness 1.20 mm</div>	<div>Internal finish Textile support</div> <div>External finish Pebbled</div> <div>Size 8 9 10</div> <div>Length 30 cm</div> <div>Thickness 1.35 mm</div>	<div><b>VITAL 174</b> Internal finish Easy going treatment External finish Pebbled Size 7 8 9 Length 31 cm Thickness 0.45 mm</div> <div><b>VITAL 175, 177</b> Internal finish Easy going treatment External finish Non-slip embossing Size 6 7 8 9 10 Length 31 cm Thickness 0.40 mm</div>	<div><b>VITAL 520</b> Internal finish Powdered External finish Smooth Size 6 7 8 9 Length 33 cm Thickness 0.40 mm</div> <div><b>VITAL 540</b> Internal finish Powdered External finish Non-slip grip Size 8 9 10 Length 31 cm Thickness 0.40 mm</div>	<div><b>VITAL 115</b> Internal finish Flocked External finish Non-slip embossing Size 6 7 8 9 Length 30.5 cm Thickness 0.35 mm</div> <div><b>VITAL 117, 124</b> Internal finish Flocked External finish Non-slip embossing Size 6 7 8 9 10 Length 30.5 cm Thickness 0.35 mm</div>	<div>Internal finish Flocked</div> <div>External finish Non-slip embossing</div> <div>Size 6 7 8 9</div> <div>Length 32 cm</div> <div>Thickness 0.50 mm</div>	<div><b>VITAL 180</b> Internal finish Flocked External finish Non-slip embossing Size 6 7 8 9 10 Length 30 cm Thickness 0.40 mm</div> <div><b>VITAL 181</b> Internal finish Flocked External finish Pebbled Size 7 8 9 Length 31 cm Thickness 0.40 mm</div>	
CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	
<div>EN 388:2016  4141X</div> <div>EN ISO 374-1:2016 TYPE B  KMO</div>	<div>EN 388:2016  4121X</div> <div>EN ISO 374-5:2016 </div> <div>EN ISO 374-1:2016 TYPE A  KLMNPT</div>	<div>EN 388:2016  0010X</div> <div>EN ISO 374-1:2016 TYPE B  KPT</div> <div>EN 421  VIRUS* (*VITAL 174 &amp; 175)</div>	<div>EN 421  2010X (VITAL 520) 0010X (VITAL 540)</div> <div>EN ISO 374-1:2016 TYPE B  KMP (VITAL 520) KPT (VITAL 540)</div>	<div>EN 421  0010X</div> <div>EN ISO 374-1:2016 TYPE B  KPT</div>	<div>EN 421  1110X</div> <div>EN ISO 374-1:2016 TYPE B  KPS</div>	<div>EN 388:2016  1110X</div> <div>EN ISO 374-5:2016 </div> <div>EN ISO 374-1:2016 TYPE B  KPT</div>	
 	 	  	 	  		 	

# 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**  
**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)

MATERIAL LATEX		MATERIAL LATEX MIX		MATERIAL LATEX	
<div><div></div><div></div><div>frequent CONTACT</div></div>					
<div><div></div><div>intermittent WEAR</div></div>			<div><div></div><div>continuous WEAR</div></div>		
<div><div>ALTO 258</div><div></div><div>Strong protection against aggressive detergents</div></div>		<div><div>ALTO 405</div><div></div><div>Precision dexterity in aggressive environments</div></div>		<div><div>ALTO 415</div><div></div><div>Fine touch for light chemical protection</div></div>	
<div><div>JERSETTE 307</div><div></div><div>Exceptional comfort and precision dexterity in light aggressive environments</div></div>		<div><div>JERSETTE 300</div><div></div><div>Maximum comfort for long-term work in aggressive environments</div></div>		<div><div>JERSETTE 301</div><div></div><div>Maximum comfort for long-term work in aggressive environments</div></div>	
<div>Internal finish Flocked</div> <div>External finish Non-slip embossing</div> <div>Size 6 7 8 9 10</div> <div>Length 32 cm</div> <div>Thickness 0.60 mm</div>		<div>Internal finish Flocked</div> <div>External finish Non-slip embossing</div> <div>Size 6 7 8 9 10</div> <div>Length 33 cm</div> <div>Thickness 0.70 mm</div>		<div>Internal finish Flocked</div> <div>External finish Non-slip embossing</div> <div>Size 6 7 8 9 10 11</div> <div>Length 32 cm</div> <div>Thickness 0.60 mm</div>	
<div>Internal finish Textile support</div> <div>External finish Pebbled</div> <div>Size 6 7 8 9</div> <div>Length 31 cm</div> <div>Thickness 0.75 mm</div>		<div>JERSETTE 300</div> <div>Internal finish Textile support</div> <div>External finish Smooth</div> <div>Size 5 6 7 8 9 10</div> <div>Length 29-33 cm</div> <div>Thickness 1.15 mm</div>		<div>JERSETTE 301</div> <div>Internal finish Textile support</div> <div>External finish Pebbled</div> <div>Size 5 6 7 8 9 10</div> <div>Length 29-33 cm</div> <div>Thickness 1.15 mm</div>	
<div>CAT 3</div> <div><div>EN388:2016</div><div>1110X</div></div> <div><div>EN ISO 374-1:2016 TYPE B</div><div>KPS</div></div> <div><div>EN ISO 374-5:2016</div><div></div></div>		<div>CAT 3</div> <div><div>EN388:2016</div><div>2110X</div></div> <div><div>EN ISO 374-1:2016 TYPE B</div><div>KMT</div></div> <div><div>EN ISO 374-5:2016</div><div></div></div> <div><div>EN 421</div><div></div></div>		<div>CAT 3</div> <div><div>EN388:2016</div><div>1011X</div></div> <div><div>EN ISO 374-1:2016 TYPE B</div><div>KMT</div></div> <div><div>EN ISO 374-5:2016</div><div></div></div> <div><div>EN 421</div><div></div></div>	
<div><div></div><div></div></div>		<div><div></div><div></div><div></div></div>		<div><div></div></div>	
<div><div>JERSETTE 307</div><div></div><div>Exceptional comfort and precision dexterity in light aggressive environments</div></div>		<div><div>JERSETTE 300</div><div></div><div>Maximum comfort for long-term work in aggressive environments</div></div>		<div><div>JERSETTE 301</div><div></div><div>Maximum comfort for long-term work in aggressive environments</div></div>	
<div>Internal finish Textile support</div> <div>External finish Pebbled</div> <div>Size 6 7 8 9</div> <div>Length 31 cm</div> <div>Thickness 0.75 mm</div>		<div>JERSETTE 300</div> <div>Internal finish Textile support</div> <div>External finish Smooth</div> <div>Size 5 6 7 8 9 10</div> <div>Length 29-33 cm</div> <div>Thickness 1.15 mm</div>		<div>JERSETTE 301</div> <div>Internal finish Textile support</div> <div>External finish Pebbled</div> <div>Size 5 6 7 8 9 10</div> <div>Length 29-33 cm</div> <div>Thickness 1.15 mm</div>	
<div>CAT 3</div> <div><div>EN388:2016</div><div>2120X</div></div> <div><div>EN407</div><div>X1XXXX</div></div>		<div>CAT 3</div> <div><div>EN388:2016</div><div>2131X</div></div> <div><div>EN ISO 374-1:2016 TYPE B</div><div>KPT</div></div> <div><div>EN407</div><div>X1XXXX</div></div>		<div>CAT 3</div> <div><div>EN388:2016</div><div>2131X</div></div> <div><div>EN ISO 374-1:2016 TYPE B</div><div>KPT</div></div> <div><div>EN407</div><div>X1XXXX</div></div>	
<div><div></div></div>		<div><div></div><div></div><div></div></div>		<div><div></div><div></div><div></div></div>	



# CHEMICAL PROTECTION

## HARPON - 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**

**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)

MATERIAL LATEX					
<b>frequent</b> CONTACT		<b>prolonged</b> CONTACT			
<b>continuous</b> WEAR		<b>short</b> WEAR		<b>intermittent</b> WEAR	
<div><div><b>HARPON 321</b></div><div></div><div><b>Comfort and safety when gripping heavy, rough or slippery objects in highly-aggressive settings</b></div></div>		<div><div><b>ALTO 298</b></div><div></div><div><b>Good mechanical performance for long-lasting chemical protection</b></div></div>		<div><div><b>ALTO 285</b></div><div></div><div><b>Good mechanical performance for long-lasting chemical protection</b></div></div>	
<div><div><b>ALTO 260</b></div><div></div><div><b>A good choice when dexterity and chemical protection is needed for extended wear</b></div></div>		<div><div><b>ALTO 299</b></div><div></div><div><b>Good mechanical performance for long-lasting chemical protection</b></div></div>			
<div><div><b>HARPON 321</b></div><div>Internal finish Textile support</div><div>External finish Reinforced grip</div><div>Size 6 7 8 9 10</div><div>Length 32 cm</div><div>Thickness 1.35 mm</div></div>		<div><div><b>HARPON 325</b></div><div>Internal finish Textile support</div><div>External finish Reinforced grip</div><div>Size 8 9 10</div><div>Length 37 cm</div><div>Thickness 1 mm</div></div>		<div><div><b>ALTO 298</b></div><div>Internal finish Chlorinated</div><div>External finish Smooth</div><div>Size 8 9 10</div><div>Length 42 cm</div><div>Thickness 1 mm</div></div>	
<div><div><b>ALTO 285</b></div><div>Internal finish Chlorinated</div><div>External finish Reinforced grip</div><div>Size 8 9 10</div><div>Length 60 cm</div><div>Thickness 1 mm</div></div>		<div><div><b>ALTO 260</b></div><div>Internal finish Chlorinated</div><div>External finish Non-slip embossing</div><div>Size 7 8 9 10 11</div><div>Length 32 cm</div><div>Thickness 0.80 mm</div></div>		<div><div><b>ALTO 299</b></div><div>Internal finish Flocked</div><div>External finish Non-slip embossing</div><div>Size 7 8 9 10</div><div>Length 31 cm</div><div>Thickness 0.90 mm</div></div>	
CAT 3		CAT 3		CAT 3	
<div><div>EN388:2016</div><div>EN ISO 374-1:2016 TYPE B</div><div>EN407</div><div> 3141X</div><div> KPT</div><div> X2XXXX</div></div>		<div><div>EN388:2016</div><div>EN ISO 374-1:2016 TYPE A</div><div>EN ISO 374-5:2016</div><div> 3131X</div><div> AKLMPT</div><div></div></div>		<div><div>EN388:2016</div><div>EN ISO 374-1:2016 TYPE A</div><div>EN ISO 374-5:2016</div><div> 2131X</div><div> ABKMPT</div><div></div></div>	
<div><div>EN388:2016</div><div>EN ISO 374-1:2016 TYPE A</div><div>EN ISO 374-5:2016</div><div> 2120X</div><div> AKLMPT</div><div></div></div>		<div><div>EN388:2016</div><div>EN ISO 374-1:2016 TYPE A</div><div>EN ISO 374-5:2016</div><div> 3121X</div><div> AKLMPT</div><div></div></div>			

# CHEMICAL PROTECTION

## ULTRANITRIL 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**
-  **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)

MATERIAL NITRILE								
 <b>splashes</b>			 <b>frequent</b> CONTACT			 <b>prolonged</b> CONTACT		
 <b>short</b> WEAR			 <b>intermittent</b> WEAR		 <b>ultra-comfort</b> WEAR	 <b>short</b> WEAR	 <b>intermittent</b> WEAR	 <b>continuous</b> WEAR
ULTRANITRIL 472	ULTRANITRIL 487	ULTRANITRIL 454	ULTRANITRIL 485	ULTRANITRIL 492	ULTRANITRIL 381	ULTRANITRIL 480	ULTRANITRIL 493	ULTRANITRIL 377
								
Fingertip precision for light chemical protection and food handling	Fingertip precision for light chemical protection	Precision dexterity in mildly aggressive environments, for those sensitive to natural latex	Good sensitivity for standard chemical protection	Good mechanical resistance and long-lasting chemical protection	Maximum comfort for standard chemical protection	Ultra-long chemical protection	Ultra-long chemical protection	Comfort and reinforced mechanical resistance for long-lasting chemical protection
Internal finish Easy going treatment	Internal finish Easy going treatment	Internal finish Flocked	Internal finish Flocked	Internal finish Flocked	Internal finish Mapa technology Textile support	Internal finish Chlorinated	Internal finish Flocked	Internal finish Textile support
External finish Pebbled	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Smooth
Size 6 7 8 9 10	Size 7 8 9 10	Size 6 7 8 9 10	Size 7 8 9 10	492 Size 6 7 8 9 10 11 491 Size 6 7 8 9 10	Size 7 8 9 10 11	Size 7 8 9 10	Size 8 9 10 11	Size 8 9 10
Length 31 cm	Length 32 cm	Length 31 cm	Length 31 cm	Length 32 cm	Length 35.5 cm	Length 46 cm	Length 39 cm	Length 38 cm
Thickness 0.20 mm	Thickness 0.28 mm	Thickness 0.35 mm	Thickness 0.34 mm	Thickness 0.38 mm	Thickness 0.95 mm	Thickness 0.55 mm	Thickness 0.55 mm	Thickness 1.30 mm
CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3
EN ISO 374-1:2016 TYPE B EN388:2016 2101X JOT	EN ISO 374-1:2016 TYPE B EN388:2016 2101X JOT	EN ISO 374-1:2016 TYPE B EN388:2016 2000X KPT	EN ISO 374-1:2016 TYPE B EN388:2016 3101X JKOPT	EN ISO 374-1:2016 TYPE B EN388:2016 3101X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 3111A JKLOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4102X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4102X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4122X AJKOPT
EN ISO 374-5: 2016 EN421	EN ISO 374-5: 2016	EN ISO 374-5: 2016	EN ISO 374-5: 2016	EN ISO 374-5: 2016 VIRUS	EN ISO 374-5: 2016 X1XXXX	EN ISO 374-5: 2016	EN ISO 374-5: 2016	EN ISO 374-5: 2016 X1XXXX
    	    	    	    		    		    	



# 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**

**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)

MATERIAL POLYCHLOROPRENE						
<b>splashes</b>		<b>frequent</b> CONTACT			<b>prolonged</b> CONTACT	
<b>intermittent</b> WEAR	<b>continuous</b> WEAR	<b>intermittent</b> WEAR	<b>continuous</b> WEAR	<b>ultra-comfort</b> WEAR	<b>short</b> WEAR	<b>continuous</b> WEAR
<b>ULTRANEO 401</b>  Tactile sensitivity for light chemical protection	<b>ULTRANEO 340</b>  Comfort with light chemical protection	<b>ULTRANEO 420</b>  Suppleness and freedom of movement for standard chemical protection	<b>ULTRANEO 341</b>  Comfort with standard chemical protection	<b>ULTRANEO 382</b>  Maximum comfort for standard chemical protection	<b>ULTRANEO 407</b>  Ultra-high performance chemical protection	<b>ULTRANEO 339</b>  Comfort and high chemical protection
Internal finish Flocked External finish Non-slip embossing Size 7 8 9 10 Length 31 cm Thickness 0.55 mm	Internal finish Textile support External finish Smooth Size 7 8 9 10 Length 38 cm Thickness 1.30 mm	Internal finish Flocked External finish Non-slip embossing Size 420 Size 6 7 8 9 10 Length 31 cm Thickness 0.75 mm	Internal finish Textile support External finish Smooth Size 8 9 10 11 Length 38 cm Thickness 1.45 mm	Internal finish Mapa technology Textile support External finish Non-slip embossing Size 6 7 8 9 10 Length 35.5 cm Thickness 0.90 mm	Internal finish Chlorinated External finish Non-slip embossing Size 9 10 Length 35.5 cm Thickness 0.75 mm	Internal finish Textile support External finish Pebbled Size 9 10 Length 35.5 cm Thickness 1.35 mm
CAT 3 EN388:2016 EN ISO 374-1:2016 TYPE A 2110X ALMNST EN ISO 374-5:2016	CAT 3 EN388:2016 EN ISO 374-1:2016 TYPE A 2121X CLMNST EN ISO 374-5:2016 EN407 X1XXXX	CAT 3 EN388:2016 EN ISO 374-1:2016 TYPE A 2121X ALMNST EN ISO 374-5:2016	CAT 3 EN388:2016 EN ISO 374-1:2016 TYPE A 2121X ACLMNS EN407 X1XXXX	CAT 3 EN388:2016 EN ISO 374-1:2016 TYPE A 2121X ALMNST EN407 X1XXXX	CAT 3 EN388:2016 EN ISO 374-1:2016 TYPE A 2111X ABCJLMNS EN ISO 374-5:2016	CAT 3 EN388:2016 EN ISO 374-1:2016 TYPE A 3121X ABCJLMNS EN407 X1XXXX

# CHEMICAL PROTECTION

## BUTOFLEX - FLUOTECH 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**

**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)

MATERIAL BUTYL	
short WEAR	ultra-comfort WEAR
<div><b>BUTOFLEX 651</b></div> <div></div> <div>Ultimate specific chemical resistance</div>	<div><b>BUTOFLEX 650</b></div> <div></div> <div>Ultimate specific chemical resistance</div>
Internal finish Easy going treatment	Internal finish Mapa technology Textile support
External finish Non-slip embossing	External finish Non-slip embossing
Size 7 8 9 10	Size 7 8 9 10 11
Length 35 cm	Length 35 cm
Thickness 0.50 mm	Thickness 1.50 mm
CAT 3	
<div><div>EN388:2016</div><div> 0010X</div></div> <div><div>EN ISO 374-1:2016 TYPE A</div><div> ABCILMNOS</div></div> <div><div>EN ISO 374-5:2016</div><div></div></div>	<div><div>EN388:2016</div><div> 1121X</div></div> <div><div>EN ISO 374-1:2016 TYPE A</div><div> ABCILMNOS</div></div> <div><div>EN ISO 374-5:2016</div><div></div></div>
<div> </div>	

MATERIAL FLUOROELASTOMER	
short WEAR	continuous WEAR
<div><b>FLUOTECH 468</b></div> <div></div> <div>Tactile sensitivity with wear indicator</div>	<div><b>FLUOTECH 344</b></div> <div></div> <div>Comfort and flexibility for extended wear</div>
Internal finish Chlorinated	Internal finish Textile support
External finish Smooth	External finish Smooth
Size 8 9 10	Size 9 10
Length 30 cm	Length 37 cm
Thickness 0.50 mm	Thickness 1.50 mm
CAT 3	
<div><div>EN388:2016</div><div> 3102X</div></div> <div><div>EN ISO 374-1:2016 TYPE A</div><div> ADEFGILJMNO</div></div> <div><div>EN ISO 374-5:2016</div><div></div></div>	<div><div>EN388:2016</div><div> 3121X</div></div> <div><div>EN ISO 374-1:2016 TYPE A</div><div> ACDEFGJLMN</div></div> <div><div>EN407</div><div> X1XXXX</div></div> <div><div>EN ISO 374-5:2016</div><div></div></div>
<div> </div>	



# 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

#### PVC

Mechanical strength and price.

#### LATEX

Flexibility and comfort.

#### NITRILE (next page)

Mechanical resistance and resistance to oils.

#### TRIPOLYMER (next page)

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 DONING 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 PVC/VINYL		POLYMER LATEX		
COMFORT POWDERED		COMFORT CHLORINATED	COMFORT EASY GOING TREATMENT	COMFORT POWDERED
<b>SOLO 990</b>		<b>SOLO 998</b>	<b>SOLO PLUS 995</b>	<b>SOLO 992</b>
The best value for precise movements		Optimal flexibility and dexterity	Optimal flexibility and dexterity	Optimal flexibility and dexterity
External finish Smooth		External finish Smooth with pebbled fingertips	External finish Textured	External finish Smooth
Size 6 7 8 9		Size 6 7 8 9	Size 6 7 8 9	Size 6 7 8 9
Length 24 cm		Length 30 cm	Length 24.5 cm	Length 24 cm
Thickness 0.08 mm		Thickness 0.10 mm	Thickness 0.10 mm	Thickness 0.10 mm
CAT 3		CAT 3	CAT 3	CAT 3
EN ISO 374-1:2016 TYPE C 		EN ISO 374-1:2016 TYPE C 	EN ISO 374-1:2016 TYPE C 	EN ISO 374-1:2016 TYPE C 
EN ISO 374-5:2016 		EN ISO 374-5:2016 	EN ISO 374-5:2016 	EN ISO 374-5:2016 

# 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

**PVC** (previous page)  
Mechanical strength and price.

**LATEX** (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.


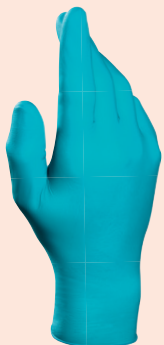


























**EASY DONING TREATMENT**  
Makes it easier to put on and take off gloves, without increasing the thickness and without using powder.  
Reduces the allergy risk of natural latex gloves.

### 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 NITRILE					POLYMER TRIPOLYMER
COMFORT CHLORINATED				COMFORT POWDERED	COMFORT CHLORINATED
<b>SOLO 967</b>  Excellent dexterity due to the flexibility and fineness of the material. Available bagged and boxed (Solo Ultra 967)	<b>SOLO 977</b>  Ideal protection in chemical industry against splashes	<b>SOLO 999</b>  Excellent mechanical resistance, ideal in oily environments	<b>SOLO 987</b>  The perfect protection for light handling in oily environments	<b>SOLO 996</b>  Excellent mechanical resistance, ideal in oily environments	<b>TRILITES 994</b>  Tripolymer formula for protection against chemical splashes and splatters
Internal finish Easy going treatment External finish Pebbled Size 6 7 8 9 Length 24.5 cm Thickness 0.08 mm	Internal finish Chlorinated External finish Smooth with pebbled fingertips Size 6 7 8 9 10 Length 24 cm Thickness 0.10 mm	Internal finish Chlorinated External finish Smooth with pebbled fingertips Size 6 7 8 9 Length 29.5 cm Thickness 0.10 mm	Internal finish Chlorinated External finish Smooth with pebbled fingertips Size 6 7 8 9 Length 24.5 cm Thickness 0.10 mm	Internal finish Powdered External finish Smooth with pebbled fingertips Size 6 7 8 9 Length 24.5 cm Thickness 0.10 mm	Internal finish Chlorinated External finish Pebbled Size 6 7 8 9 Length 25.5 cm Thickness 0.15 mm
CAT 3				CAT 3	
EN ISO 374-1:2016 TYPE C 	EN ISO 374-5:2016 	EN ISO 374-1:2016 TYPE B 	EN ISO 374-5:2016 	JKT 	JKT 
EN ISO 374-1:2016 TYPE B 	EN ISO 374-5:2016 	EN ISO 374-1:2016 TYPE B 	EN ISO 374-5:2016 	KPT 	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.

- 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			ENVIRONMENT oily and very dirty		
short SERVICE LIFE	long SERVICE LIFE	high-performance SERVICE LIFE			
<b>ULTRANE 548</b>  Optimal dexterity and sensitivity for light protection	<b>ULTRANE 551</b>  Unbeatable for fingertip precision	<b>ULTRANE 510</b>  Optimal comfort, high level of breathability & durability for precision work	<b>ULTRANE 541</b>  Comfort, suppleness and high dexterity without any compromise on durability	<b>ULTRANE 553</b>  Unbeatable for fingertip precision in dirty environments	<b>ULTRANE 500</b>  Assured grip, skin protected and excellent dexterity in slightly oily/dirty environments
Internal finish Seamless knitted Textile support  External finish Polyurethane coating on palm and fingers Gauge 13 Size Ultrane 548 6 7 8 9 10 11 Ultrane 549 6 7 8 9 10 Length 22-27 cm	Internal finish Seamless knitted Textile support  External finish Polyurethane coating on palm and fingers Gauge 13 Size Ultrane 551 6 7 8 9 10 11 Ultrane 550 6 7 8 9 10 11 Length 22-27 cm 	Internal finish Seamless knitted Textile support External finish Polymer coating with aqueous base on the palm and fingers Gauge 13 Size 6 7 8 9 10 11 Length 22-27 cm Washable x1 	Internal finish Seamless knitted Textile support External finish Roughened nitrile coating on the palm and fingers Gauge 15 Size 6 7 8 9 10 11 Length 22-27 cm Washable x1 	Internal finish Seamless knitted Textile support  External finish Nitrile coating on palm and fingers Gauge 13 Size 6 7 8 9 10 Length 22-26 cm	Internal finish Seamless knitted Textile support  External finish Double layer coating: Nitrile Smooth - Roughened Nitrile Ultrane 500 palm and fingers Ultrane 525 3/4 coating Ultrane 526 complete coating Gauge 13 Size Ultrane 500 6 7 8 9 10 11 Ultrane 525 7 8 9 10 11 Ultrane 526 7 8 9 10 11 Length 23-28 cm Washable x5 
CAT 2 EN388:2016  3121X	CAT 2 EN388:2016  4131X	CAT 2 EN388:2016  4131X	CAT 2 EN388:2016  4121A EN407  X1XXXX	CAT 2 EN388:2016  4121X	CAT 2 EN388:2016  4121X





# MECHANICAL PROTECTION

## TITAN 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:

- Ø **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						
dry ENVIRONMENTS						
short SERVICE LIFE			long SERVICE LIFE		high-performance SERVICE LIFE	
<b>TITAN 833</b>  Comfort and dexterity for common tasks	<b>TITAN 375</b>  Protection for all types of light handling activities	<b>TITAN 383</b> 	<b>TITAN 397</b>  Comfort and dexterity for common handling tasks	<b>TITAN 385</b>  Comfort and durability for heavy-duty handling	<b>TITAN 393</b>  Optimised comfort and maximum durability for heavy-duty work	<b>TITAN 391</b>  <b>TITAN 392</b>  <b>TITAN 388</b> 
Internal finish Textile support External finish 3/4 nitrile coating Size 7 8 9 10 Length 26.5 cm	<b>TITAN 375</b> Internal finish Textile support External finish Full nitrile coating Scalloped cut Size 6 7 8 9 Length 26 cm	<b>TITAN 376</b> Internal finish Textile support External finish Full nitrile coating Scalloped cut Size 8 9 Length 31 cm	Internal finish Textile support External finish Full nitrile coating knitted cuff Size 7 8 9 10 Length 26-29 cm	Internal finish Textile support External finish 3/4 nitrile coating safety cuff Size 6 7 8 9 10 Length 24-31 cm	Internal finish Textile support External finish Titan 385: 3/4 nitrile coating safety cuff Titan 388: Full nitrile coating safety cuff Titan 391: 3/4 nitrile coating knitted cuff Titan 392: Full nitrile coating knitted cuff Size Titan 385 8 9 10 Titan 388, 391, 392 8 9 10 Length Titan 385, 388 24-26 cm Titan 391, 392 24-27 cm	Internal finish Knitted textile support in brushed cotton External finish Full nitrile coating Size 7 8 9 Length 31 cm
CAT 2 EN388:2016  3111X	CAT 2 EN388:2016  3111X	CAT 2 EN388:2016  3111X	CAT 2 EN388:2016  4111X	CAT 2 EN388:2016  4111X	CAT 2 EN388:2016  4111X	CAT 2 EN388:2016  4111X EN407  X1XXXX
						

# 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			
wet ENVIRONMENTS		oily and very dirty ENVIRONMENTS	
short SERVICE LIFE	long SERVICE LIFE		high-performance SERVICE LIFE
<div>TITAN 328</div> <div></div> <div>Flexibility and grip for common handling tasks</div> <div><div>Internal finish Seamless knitted textile support</div><div>External finish Natural latex anti-slip coating on palm and fingers Embossed, anti-slip texture Knitted cuff Gauge 10</div><div>Size 8 9 10</div><div>Length 24-27 cm</div></div> <div><div>CAT 2</div><div><div>EN388:2016 2142X</div><div>EN407 X2XXXX</div></div></div>	<div>HARPON 319</div> <div></div> <div>Comfort, reinforced safety and excellent grip in wet environments</div> <div><div>HARPON 319</div><div><div>Internal finish Textile support</div><div>External finish Total coating in natural latex Embossed, anti-slip texture Knitted cuff</div><div>Size 7 8 9</div><div>Length 25-27 cm</div></div><div><div>CAT 2</div><div><div>EN388:2016 3131X</div><div>EN407 X1XXXX</div></div></div></div>	<div>HARPON 330</div> <div></div> <div><div>Internal finish Textile support</div><div>External finish 3/4 coating in natural latex Embossed, anti-slip texture Knitted cuff</div><div>Size 6 7 8 9</div><div>Length 25-27 cm</div></div> <div><div>CAT 2</div><div><div>EN388:2016 3131X</div><div>EN407 X1XXXX</div></div></div>	<div>TITAN 850</div> <div><div><div>GRIP &amp; PROOF</div></div><div>Shock absorption, durability and comfort for heavy handling work</div><div><div>Internal finish Seamless knitted textile support</div><div>External finish Nitrile coating on the palm and fingers Double layer coating: smooth nitrile - roughened nitrile Gauge 13</div><div>Size 7 8 9 10 11</div><div>Length 23.5-27.5 cm</div></div><div><div>CAT 2</div><div><div>EN388:2016 4132XP</div></div></div></div>





# 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

<b>dry and relatively clean</b> ENVIRONMENT						
<b>low</b> RISK						
<b>short</b> SERVICE LIFE		<b>long</b> SERVICE LIFE		<b>high-performance</b> SERVICE LIFE		
<b>KRYTECH 579</b>		<b>KRYTECH 584</b>		<b>KRYTECH 557</b>		<b>KRYTECH 558</b>
Moderate protection for very precise handling in reasonably clean environments		Moderate protection with crotch reinforcement for precise handling in reasonably clean environments		Moderate protection and durability for precise handling in reasonably clean environments		Cut protection for optimum comfort, high level of breathability & durability for precision work
Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres
External finish Polyurethane coating on palm and fingers Gauge 13		External finish Polyurethane coating on palm and fingers Gauge 13		External finish Polyurethane coating on palm and fingers Gauge 13		External finish Polymer coating with aqueous base on the palm and fingertips Gauge 13
Size 6 7 8 9 10 11    Length 22-27 cm		Size 6 7 8 9 10 11    Length 27-32 cm		Size 6 7 8 9 10 11    Length 22-27 cm		Size 7 8 9 10 11    Length 23-27 cm
Washable x5		Washable x5		Washable x5		Washable x1
CAT 2		CAT 2		CAT 2		CAT 2
EN388:2016  4342B		EN388:2016  4342B		EN388:2016  4343B		EN388:2016  4341B
ISO 13997: 5.3 N		ISO 13997: 5.3 N		ISO 13997: 5.3 N		ISO 13997: 6.1 N
Moderate protection for very precise handling in reasonably clean environments		Moderate protection with crotch reinforcement for precise handling in reasonably clean environments		Moderate protection and durability for precise handling in reasonably clean environments		Cutting, grip and dexterity for dry and slightly oily environments
Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres
External finish Polyurethane coating on palm and fingers Gauge 13		External finish Polyurethane coating on palm and fingers Gauge 13		External finish Polyurethane coating on palm and fingers Gauge 13		External finish Roughened nitrile coating one layer Gauge 13
Size 6 7 8 9 10 11    Length 22-27 cm		Size 6 7 8 9 10 11    Length 27-32 cm		Size 6 7 8 9 10 11    Length 22-27 cm		Size 7 8 9 10 11    Length 23-28 cm
Washable x5		Washable x5		Washable x5		Washable x1
CAT 2		CAT 2		CAT 2		CAT 2
EN388:2016  4342B		EN388:2016  4342B		EN388:2016  4343B		EN388:2016  4343B
ISO 13997: 5.3 N		ISO 13997: 5.3 N		ISO 13997: 5.3 N		ISO 13997: 5.9 N





# 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

dry and relatively clean  
ENVIRONMENT

moderate  
RISK

high  
RISK

very high  
RISK

short  
SERVICE LIFE

long  
SERVICE LIFE

high-  
performance  
SERVICE LIFE

long  
SERVICE LIFE

#### KRYTECH 601



An ambidextrous glove with a high dexterity coupled with a good cut performance and comfort

#### KRYTECH 610



A cut protection with a maximum comfort. A seamless plaited glove for very good fit, dexterity and flexibility.

#### KRYTECH 531



High-level cutting protection for optimum comfort, high level of breathability & durability for precision work

#### KRYTECH 583



Suppleness and breathability without compromise on protection & durability

#### KRYTECH 586



High-level protection for precise handling in reasonably clean environments

#### KRYTECH 615



A high cut protection with a maximum comfort. A seamless plaited glove for very good fit, dexterity and flexibility

#### KRYTECH 622



Very high-level cutting protection, comfortable thanks to excellent adjustment and good compatibility with touch screens

Internal finish  
Seamless knitted textile support in composite and HDPE fibres

External finish  
Without coating  
Gauge 13

Size 7 8 9 10 11 Length 23-28 cm

Washable x1

OEKO-TEX®  
STANDARD 100  
CO 9792 IFTH  
Tested for harmful substances.  
www.oeko-tex.com/standard100

CAT 2

EN388:2016



1X4XC

ISO 13997: 14.2 N

Internal finish  
Seamless knitted textile support in composite and HDPE fibres

External finish  
Polyurethane coating on the palm and fingers  
Gauge 13

Size 6 7 8 9 10 11 Length 24-29 cm

Washable x3

OEKO-TEX®  
STANDARD 100  
CO 9792 IFTH  
Tested for harmful substances.  
www.oeko-tex.com/standard100

CAT 2

EN388:2016



4X43C

ISO 13997: 14.9 N

Internal finish  
Seamless knitted support manufactured from HDPE fibres

External finish  
Polymer with aqueous base on the palm and fingers  
Gauge 13

Size 7 8 9 10 11 Length 23-27 cm

Washable x1

OEKO-TEX®  
STANDARD 100  
CO 9792 IFTH  
Tested for harmful substances.  
www.oeko-tex.com/standard100

CAT 2

EN388:2016



4X42C

ISO 13997: 14N

Internal finish  
Seamless knitted textile support in composite and HDPE fibres

External finish  
Roughened nitrile coating on the palm and fingertips  
Gauge 15

Size 7 8 9 10 11 Length 24-29 cm

Washable x3

OEKO-TEX®  
STANDARD 100  
CO 9792 IFTH  
Tested for harmful substances.  
www.oeko-tex.com/standard100

CAT 2

EN388:2016



4X42C

ISO 13997: 11 N

Internal finish  
Seamless knitted support manufactured from HDPE fibres

External finish  
Polyurethane on palm and fingers  
Gauge 13

Size 6 7 8 9 10 11 Length 24-30 cm

Washable x3

OEKO-TEX®  
STANDARD 100  
CO 9792 IFTH  
Tested for harmful substances.  
www.oeko-tex.com/standard100

CAT 2

EN388:2016



4X43D

ISO 13997: 18.6 N

Internal finish  
Seamless knitted textile support in composite and HDPE fibres

External finish  
Polyurethane coating on the palm and fingers  
Gauge 13

Size 6 7 8 9 10 11 Length 24-29 cm

Washable x3

OEKO-TEX®  
STANDARD 100  
CO 9792 IFTH  
Tested for harmful substances.  
www.oeko-tex.com/standard100

CAT 2

EN388:2016



4X43D

ISO 13997: 20 N

Internal finish  
Seamless knitted textile support in composite and HDPE fibres

External finish  
Polyurethane coating on the palm and fingers  
Gauge 13

Size 6 7 8 9 10 11 Length 24-29 cm

Washable x5

OEKO-TEX®  
STANDARD 100  
CO 9792 IFTH  
Tested for harmful substances.  
www.oeko-tex.com/standard100

CAT 2

EN388:2016



4X43E

ISO 13997: 29.5 N



# 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:

- Ø **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

🛢️ **oily and very dirty**  
ENVIRONMENTS



**low**  
RISK



**moderate**  
RISK



**high**  
RISK

⌚ **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

External finish  
Grip&Proof nitrile coating on palm and fingers  
Gauge 13

Size 6 7 8 9 10 11 Length 23-28 cm



CAT 2

EN388:2016



4342B

ISO 13997: 6 N

Internal finish  
Seamless knitted textile support of HDPE fibre

External finish  
3/4 Grip&Proof nitrile coating  
Gauge 13

Size 7 8 9 10 11 Length 23-28 cm



CAT 2

EN388:2016



4342B

ISO 13997: 6 N

Internal finish  
Seamless knitted textile support of HDPE fibre

External finish  
Full coating in Grip&Proof nitrile  
Gauge 13

Size 7 8 9 10 Length 23-28 cm



CAT 2

EN388:2016



4342B

ISO 13997: 6 N

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

External finish  
3/4 Grip&Proof nitrile coating  
Gauge 15

Size 7 8 9 10 11 Length 24-29 cm

Washable x3



CAT 2

EN388:2016



4X42C

ISO 13997: 13 N

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

External finish  
3/4 nitrile coating  
Gauge 13

Size 7 8 9 10 11 Length 23-28 cm

Washable x5



CAT 2

EN388:2016



4X43D

ISO 13997: 18 N





# 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:
- Ø **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

 <b>for all environments</b> ENVIRONMENTS		
 <b>low</b> RISK		
 <b>high</b> RISK		
<div><b>KRYTECH 532</b></div> <div></div> <div>Moderate protection reinforcement made from HDPE, ultra thin thumb hole in polyamide</div>	<div><b>KRYTECH 532 S</b></div> <div></div> <div>Moderate protection reinforcement made from HDPE, ultra thin thumb hole in polyamide</div>	<div><b>KRYTECH 538</b></div> <div></div> <div>High-performance protection from HDPE and fiberglass, polyamide ultra-thin thumb loop</div>
Length 45 cm	Width 140 mm	Washable x5
		
CAT 2		
EN388:2016		
		
334XB		
ISO 13997: 5.3 N		
Length 45 cm	Width 95 mm	Washable x5
		
CAT 2		
EN388:2016		
		
334XB		
ISO 13997: 5.3 N		
Length 60 cm	Width 150 mm	Washable x5
		
CAT 2		
EN388:2016		
		
4X4XD		
ISO 13997: 17.8 N		
		



# MECHANICAL PROTECTION

## KRYTECH RANGE



### 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 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

<b>dry and relatively clean</b> ENVIRONMENT		<b>wet</b> ENVIRONMENTS		<b>oily and very dirty</b> ENVIRONMENTS		
<b>high</b> RISK		<b>very high</b> RISK		<b>high</b> RISK	<b>low</b> RISK	<b>high</b> RISK
<b>high-performance</b> SERVICE LIFE		<b>short</b> SERVICE LIFE	<b>high-performance</b> SERVICE LIFE	<b>high-performance</b> SERVICE LIFE		
<b>KRYTECH 836</b>  Excellent cutting protection and resistance to wear with optimum dexterity and comfort	<b>KRYTECH 838</b>  Reinforced cut protection for the food industry. <b>Ambidextrous</b>	<b>KRYTECH 832</b>  High-level protection for handling heavy, sharp objects in dry and relatively clean environments	<b>KRYTECH 840</b>  High-level protection for handling heavy or sharp objects in wet environments	<b>KRYTECH 380</b>  Moderate protection against cutting, grip and skin protected for heavy handling operations in oily/dirty environment	<b>KRYTECH 395</b>  Lasting chemical protection and cut protection combined	<b>KRYTECH 851</b>  High-level cutting protection, shock absorption, durability and comfort for heavy handling work
Internal finish Seamless knitted textile support made from HDPE and composite fibres  External finish Leather covering on palm with thumb/forefinger reinforcements Gauge 13  Size 7 8 9 10 11  Length 27-32 cm  Washable x5	Internal finish Seamless knitted lining made from HDPE fibers  External finish Gauge 10  Size 6 7 8 9 10 11  Length 34 cm  Washable x20	Internal finish Seamless knitted textile support made from composite fibres  External finish Leather covering on palm with thumb/forefinger reinforcements Gauge 10  Size 8 9 10 11  Length 23-26 cm  Washable x5	Internal finish Seamless knitted textile support made from composite fibres  External finish Latex palm and fingers/ Non-slip embossing Gauge 10  Size 7 8 9 10  Length 23-26 cm	Internal finish Seamless knitted textile support made from cotton and HDPE fibres  External finish 3/4 double layer coating: Smooth nitrile - Roughened nitrile Safety cuff Gauge 13  Size 7 8 9 10  Length 25-27 cm	Internal finish Multi-layer technology: combination of high strength and nitrile fibres  External finish Textile support  Size 8 9 10  Length 32 cm	Internal finish Seamless knitted textile support made from HDPE and composite fibres  External finish Double nitrile layer coating: Smooth nitrile - Roughened nitrile palm and fingers  Size 7 8 9 10 11  Length 25-28 cm
CAT 2		CAT 2		CAT 2		CAT 3
EN388:2016  4X43D  EN407  X1XXXX  ISO 13997: 17.2 N		EN388:2016  2X4XE  ISO 13997: 24.2 N		EN388:2016  4X43E  EN407  X1XXXX  ISO 13997: 24.3 N		EN388:2016  4X43D  EN407  X1XXXX  ISO 13997: 20.4 N

# 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.

**SERVICE LIFE (COLD)**

 **long** service life

 **high-performance** service life

**CONTACT TIME (HOT)**

 **short** contact

 **prolonged** contact

TEMPERATURE -10°C		TEMPERATURE up to 150°C		TEMPERATURE above 150°C													
<div> <b>wet</b> ENVIRONMENTS</div>		<div> <b>dry</b>  <b>moderately oily</b> ENVIRONMENTS</div>		<div> <b>wet</b>  <b>chemical</b>  <b>moderately oily</b> ENVIRONMENTS</div>													
<div> <b>long</b> SERVICE LIFE</div>		<div> <b>high-performance</b> SERVICE LIFE</div>															
		<div> <b>CONTACT TIME short-term</b><table><tr><td>80°C</td><td>70s</td></tr><tr><td>100°C</td><td>30s</td></tr><tr><td>125°C</td><td>20s</td></tr></table></div>		80°C	70s	100°C	30s	125°C	20s	<div> <b>CONTACT TIME prolonged</b><table><tr><td>80°C</td><td>1min50s</td></tr><tr><td>100°C</td><td>1min</td></tr><tr><td>125°C</td><td>38s</td></tr></table></div>		80°C	1min50s	100°C	1min	125°C	38s
80°C	70s																
100°C	30s																
125°C	20s																
80°C	1min50s																
100°C	1min																
125°C	38s																
		<div> <b>CONTACT TIME prolonged</b><table><tr><td>80°C</td><td>1min50s</td></tr><tr><td>100°C</td><td>1min</td></tr><tr><td>125°C</td><td>38s</td></tr></table></div>		80°C	1min50s	100°C	1min	125°C	38s	<div> <b>CONTACT TIME short-term</b><table><tr><td>100°C</td><td>37s</td></tr><tr><td>150°C</td><td>16s</td></tr><tr><td>175°C</td><td>12s</td></tr></table></div>		100°C	37s	150°C	16s	175°C	12s
80°C	1min50s																
100°C	1min																
125°C	38s																
100°C	37s																
150°C	16s																
175°C	12s																
<div><b>TEMPICE 770</b> </div> <div>Thermal insulation 100% sealed for protecting against intense contact cold</div>		<div><b>TEMPICE 700</b> </div> <div>Dexterity and comfort for optimised thermal protection and durability</div>		<div><b>TEMPDEX 710</b> </div> <div>High dexterity and thermal protection</div>													
		<div><b>TEMPDEX 720</b> </div> <div>Dexterity and resistance to cuts for optimised thermal protection</div>		<div><b>TEMPCOOK 476</b> </div> <div>Hygienic with high-temperature thermal protection 100% liquidproof</div>													
				<div><b>TEMPTEC 332</b> </div> <div>Effective thermal insulation and multi-purpose chemical resistance</div>													
Internal finish Jersey textile support lined with a woollen sleeve		Internal finish Seamless knitted textile support		Internal finish Knitted thermal protection													
External finish Pebbled PVC coating		External finish 3/4 nitrile coating Gauge 15		External finish Non-slip embossing Nitrile coating													
Material PVC	Size 9 10	Length 30 cm		Size 7(S) 9(M) 10(L)	Length 45 cm												
		Material PVC	Size 7 8 9 10	Length 24-27 cm	Washable x5												
CAT 3		CAT 2		CAT 2													
EN388:2016  4221X		EN ISO 374-1:2016 TYPE B  KMO		EN388:2016  4111X													
EN511  121		EN ISO 374-5:2016  02X		EN407  X1XXXX													
				EN388:2016  4343B													
				EN407  X2XXXX													
				ISO 13997 : 10.2 N													
CAT 3		CAT 3		CAT 3													
EN388:2016  4443D		EN511  111		EN407  X2XXXX													
EN ISO 374-1:2016 TYPE A  AFGJOT		EN ISO 374-5:2016 		EN388:2016  2212X													
				EN511  111													
				EN407  X2XXXX													
  		  		  													
  		  		 													
																	
				  													
				 													



# 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.

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.

These tests are available on our Mapa Professional Web site

mapa-pro.com













**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.

FOOD CONTACT: YOUR SELECTION GUIDE

SELECT THE RIGHT GLOVE

- Suitable for contact with this type of food
- If pH > 4,5, suitable for contact with this type of food
- If pH < 4,5, unsuitable
- Unsuitable for contact with this type of food

STEP 1	YOU ARE HANDLING	 SOLO 988	 SOLO 995	 SOLO 967	 TEMPCOOK 476	 KRYTECH 838	 VITAL 177	 VITAL 165	 JERSETTE 308	 HARPON 326	 ULTRANITRIL 472	 ULTRANITRIL 475	 ULTRANITRIL 495
DRINKS	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol. clear												
	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol. cloudy												
	Alcoholic beverages of an alcoholic strength of between 6% vol. and 20%.												
	Alcoholic beverages of an alcoholic strength above 20%.												
CEREALS, STARCHES, SUGARS, CHOCOLATES AND DERIVED PRODUCTS	Starches, cereals, flour, meal, dry pasta e.g. macaroni, spaghetti and similar products and fresh pasta												
	Biscuits, pastry, cakes and other bakery products, dry, sugar and confectionery products in solid form; without fatty substances												
	Biscuits, pastry, cakes and other bakery products and confectionery products in solid form; with fatty substances, chocolate, substitutes and products coated												
	Confectionery products in moist past form												
	Molasses, sugar syrups, honey												
	Confectionery products with fatty substances on the surface												
FRUIT, VEGETABLES AND DERIVATIVES	Whole fruit, fresh or chilled, unpeeled; dried or dehydrated fruits; nuts shelled and roasted												
	Fresh vegetables, peeled or cut												
	Processed: cut, in the form of purées, paste or preserved in an aqueous medium, including pickled and in brine												
	Processed in an alcoholic medium												
	Preserved vegetables in an oily medium												
	Preserved fruits in an oily medium												
FATS AND OILS	Nuts in paste or cream form												
	Animal or vegetable, natural or treated												
ANIMAL PRODUCTS AND EGGS	Water emulsions in oil (margarine, butter)												
	Crustaceans and molluscs not naturally protected by their shells, preserved fish in an aqueous medium												
	Crustaceans and molluscs not naturally protected by their shells, preserved fish in an oily medium, marinated meat products in an oily medium												
	Crustaceans and molluscs fresh within the shell												
	Fresh fish, chilled, salted, smoked or in the form of paste												
	Meat of all zoological species, fresh, chilled, salted, smoked or in the form of paste, creams												
	Preserved and part-preserved meat in an aqueous medium												
	Preserved and part-preserved meat in an oily medium												
	Eggs, egg yolks, whites of eggs in a powdered or dried or frozen form												
	Eggs, egg yolks, whites of eggs in a liquid or cooked form												
DAIRY PRODUCTS	Whole, skimmed or partly dried milk												
	Fermented milk (yoghurt, butter milk), cream and sour cream												
	Natural cheese without rind or with edible rind and melting cheese												
	Whole cheeses with non-edible form												
	Processed cheese (soft cheese), preserved cheese in an aqueous medium (mozzarella...)												
	Preserved cheese in an oily medium												
	Milk powder including infant formula												
DRESSINGS	Sauces with aqueous character												
	Sauces with fatty character (e.g. mayonnaise, salad creams...)												
	Mustard												
	Vinegar												
MIXED FOOD PREPARATIONS	Sandwiches, toasted bread, pizza containing any kind of foodstuff with fatty substances on the surface												
	Sandwiches, toasted bread, pizza containing any kind of foodstuff but without fatty substances on the surface												
	Soups, sauces, broths powdered or dried with fatty characters (including yeast)												
	Soups, sauces, broths powdered or dried but without fatty characters (including yeast)												
	Soups, sauces, broths in any other form with fatty characters (including yeast)												
	Soups, sauces, broths in any other form but without fatty characters (including yeast)												
	Fried or roasted foods of vegetable origin (fried potatoes, fritters)												
	Fried or roasted foods of animal origin												
OTHERS	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												
	Spices and seasoning in oily medium												
	Cocoa powder												
	Cocoa paste												
	Concentrated extracts of an alcoholic strength equal to or exceeding 6% vol.												
	Frozen or deep-frozen foods												
Ice-creams													



# FOOD EXPERT RANGE

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DISPOSABLE GLOVES			THERMAL PROTECTION	CUT PROTECTION
MATERIAL NATURAL LATEX		MATERIAL NITRILE	MATERIAL NITRILE	MATERIAL TEXTILE FIBRE
FINISHING POWDERED	FINISHING CHLORINATED	FINISHING CHLORINATED		
<div>SOLO 988</div> <div></div> <div>The perfect protection for light food handling</div>	<div>SOLO 995</div> <div></div> <div>The perfect protection for light food handling</div>	<div>SOLO 967</div> <div></div> <div>Great value for light handling of oily food Exist in bag and box</div>	<div>TEMP-COOK 476</div> <div></div> <div>Hygiene and effective thermal protection 100% liquid-proof</div>	<div>KRYTECH 838</div> <div></div> <div>Reinforced cut protection for the food industry. Ambidextrous</div>
External finish Smooth  Size 6 7 8 9  Length 23 cm  Thickness 0.10 mm	External finish Smooth with pebbled fingertips  Size 6 7 8 9  Length 24-26 cm  Thickness 0.10 mm	External finish Pebbled, chlorinated  Size 6 7 8 9  Length 24.5 cm  Thickness 0.08 mm	Internal finish Knitted thermal protection  External finish Non-slip embossing  Size 7(S) 9(M) 10(L)  Length 45 cm	Internal finish Seamless knitted lining made from HDPE fibers  External finish Gauge 10  Size 6 7 8 9 10 11  Length 34 cm  Washable x20
CAT 3			CAT 3	
EN ISO 374-1:2016 TYPE C EN ISO 374-5:2016		EN ISO 374-1:2016 TYPE C EN ISO 374-5:2016		EN388:2016 4443D EN511 111 EN407 X2XXXX EN ISO 374-1:2016 TYPE A EN ISO 374-5:2016
 		 		EN388:2016 2X4XE ISO 13997: 24.2 N

# LIQUIDPROOF PROTECTION LATEX

## 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.

LIQUIDPROOF GLOVES			
MATERIAL NATURAL LATEX			
FINISHING CHLORINATED	FINISHING FLOCKED	FINISHING BACKED	FINISHING BACKED WITH GRIP
 <b>short</b> WEAR	 <b>intermittent</b> WEAR	 <b>continuous</b> WEAR	
<div>VITAL 177</div>  <div>Dexterity and flexibility</div>	<div>VITAL 165</div>  <div>Flexibility and precision dexterity</div>	<div>JERSETTE 308</div>  <div>Comfortable and suitable for long-term work</div>	<div>HARPON 326</div>  <div>Comfort and safety for gripping bulky, slippery foods</div>
Internal finish Chlorinated External finish Non-slip embossing Size 6 7 8 9 10 Length 31 cm Thickness 0.40 mm	Internal finish Flocked External finish Non-slip embossing Size 7 8 9 10 Length 30.5 cm Thickness 0.29 mm	Internal finish Textile support External finish Smooth Size 6 7 8 9 10 Length 30-33 cm Thickness 1.15 mm	Internal finish Textile support External finish Reinforced grip Size 7 8 9 10 Length 32 cm Thickness 1.35 mm
CAT 3		CAT 1	
<div>EN388:2016  0010X</div> <div>EN ISO 374-1:2016 TYPE B  KPT</div> <div>EN ISO 374-5:2016  EN421 </div>		<div>EN388:2016  2131X</div> <div>EN ISO 374-1:2016 TYPE B  KPT</div> <div>EN407  X1XXXX</div>	
		<div>EN388:2016  3141X</div> <div>EN ISO 374-1:2016 TYPE B  KPT</div> <div>EN407  X1XXXX</div>	


# 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					
FINISHING CHLORINATED		FINISHING FLOCKED			
 <b>short</b> WEAR		 <b>intermittent</b> WEAR			
<div><b>ULTRANITRIL 472</b></div> <div></div> <div>Fingertip precision for handling oily foods</div>		<div><b>ULTRANITRIL 475</b></div> <div></div> <div>Liquidproof and strong for handling oily foods</div>		<div><b>ULTRANITRIL 495</b></div> <div></div> <div>The lasting solution for safe handling of oily foods</div>	
Internal finish Chlorinated		Internal finish Flocked		Internal finish Flocked	
External finish Pebbled		External finish Non-slip embossing		External finish Non-slip embossing	
Size 6 7 8 9 10		Size 6 7 8 9 10		Size 6 7 8 9 10	
Length 31 cm	Thickness 0.20 mm	Length 31 cm	Thickness 0.34 mm	Length 30-33 cm	Thickness 1.15 mm
CAT 3		CAT 3		CAT 3	
<div><div>EN388:2016</div><div></div><div>2101X</div></div> <div><div>EN ISO 374-1:2016 TYPE B</div><div></div><div>JOT</div></div>		<div><div>EN388:2016</div><div></div><div>3001X</div></div> <div><div>EN ISO 374-1:2016 TYPE B</div><div></div><div>JOT</div></div>		<div><div>EN388:2016</div><div></div><div>3101X</div></div> <div><div>EN ISO 374-1:2016 TYPE A</div><div></div><div>AJKOPT</div></div>	
<div><div>EN ISO 374-5:2016</div><div></div></div> <div><div>EN421</div><div></div></div>		<div><div>EN ISO 374-5:2016</div><div></div></div>		<div><div>EN ISO 374-5:2016</div><div></div></div>	



# 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, they 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.

## CONTROLLED ENVIRONMENT (CLEAN ROOM)

ENVIRONMENT

<div>ADVANTECH 529</div> <div></div> <div>Reinforced mechanical resistance for short duration operations</div>	<div>ADVANTECH 519</div> <div></div> <div>The chemical protection of nitrile combined with excellent mechanical resistance</div>	<div>ADVANTECH 517</div> <div></div> <div>An exclusive, comfortable tripolymer for optimum mechanical and chemical resistance</div>			
Material Nitrile	Material Nitrile	Material Mixed formulas (latex, Neoprene and nitrile)			
Internal finish Chlorinated	Internal finish Chlorinated	REF 513	REF 514	REF 517	REF 522
External finish Smooth with pebbled fingertips	External finish Chlorinated	Internal finish Chlorinated	Internal finish Chlorinated	Internal finish Chlorinated	Internal finish Chlorinated
Size 6 7 8 9 10	Size 7 8 9 10	External finish Pebbled fingertips	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing
Length 30 cm	Length 33 cm	Size 9	Size 7 8 9 10	Size 6 7 8 9 10	Size 8 9 10
Thickness 0.10 mm	Thickness 0.30 mm	Length 30 cm	Length 38 cm	Length 36 cm	Length 61 cm
		Thickness 0.20 mm	Thickness 0.51 mm	Thickness 0.50 mm	Thickness 0.50 mm
CAT 3		CAT 3			
EN ISO 374-1:2016 TYPE B  JKT	EN388:2016  2001X	EN ISO 374-1:2016 TYPE A  JOT	EN ISO 374-1:2016 TYPE B  KPT	EN ISO 374-5:2016  EN421 	EN388:2016  1110X
EN ISO 374-5:2016 	EN ISO 374-1:2016 TYPE A  JOT	EN ISO 374-5:2016 	EN ISO 374-1:2016 TYPE B  KST	EN ISO 374-5:2016 	





Logistic information

References	Pair/Bag	Pairs/ Masterbag	Pairs/ Carton	Page N <sup>R</sup>
115	1	10	100	13
117	1	10	100	13
124	1	10	100	13
165	1	10	100	51
174	1	10	100	13
175	1	10	100	13
177	1	10	100	13, 51
180	1	10	100	13
181	1	10	100	13
210	1	10	100	13
258	1	10	100	15
260	1	10	50	17
285	1	NA	30	17
298	1	5	50	17
299	1	5	50	17
300	1	5	50	15
301	1	5	50	15
307	1	5	50	15
308	1	5	50	51
319	1	5	50	33
321	1	NA	50	17
325	1	5	50	17
326	1	5	50	51
328	1	12	96	33
330	1	5	50	33
332	1	NA	6	45
339	1	NA	6	21
340	1	5	50	21
341	1	5	50	21
344	1	NA	1	23
351	12	NA	72	13

References	Pair/Bag	Pairs/ Masterbag	Pairs/ Carton	Page N <sup>R</sup>
500	1	12	96	29
510	1	12	96	29
511	1	12	96	35
513	50	NA	200	55
514	1	12	72	55
517	1	12	72	55
519	1	12	72	55
520	1	10	100	13
522	1	6	48	55
525	1	12	96	29
526	1	12	96	29
529	100	NA	1 000	53
531	1	12	48	37
532	6	NA	72	41
532 S	6	NA	72	41
538	6	NA	48	41
540	1	NA	100	13
541	12	NA	96	29
548	1	12	96	29
549	1	12	96	29
550	10	NA	100	29
551	10	NA	100	29
553	1	10	100	29
557	1	10	50	35
558	1	12	96	35
563	1	12	96	35
579	12	NA	96	35
580	1	12	48	39
582	12	NA	48	39
583	12	NA	48	37
584	1	12	96	35

361	5	NA	50	13
375	1	5	50	31
376	1	5	50	31
377	1	5	50	19
380	1	6	48	43
381	12	NA	72	19
382	12	NA	72	21
383	10	NA	100	31
385	10	NA	100	31
388	10	NA	100	31
391	10	NA	100	31
392	10	NA	100	31
393	10	NA	100	31
395	2	NA	12	43
397	1	10	100	31
401	1	10	100	21
405	1	10	100	15
407	1	6	48	21
414	1	NA	12	21
415	1	10	100	15
420	1	10	100	21
450	1	10	50	21
454	1	NA	50	19
468	1	NA	1	23
472	10	NA	100	19, 53
475	1	12	72	53
476	2	NA	6	45, 49
480	1	NA	12	19
487	10	NA	100	19
485	12	NA	72	19
491	10	NA	50	19
492	1	10	100	19
493	1	10	50	19
495	1	10	100	53

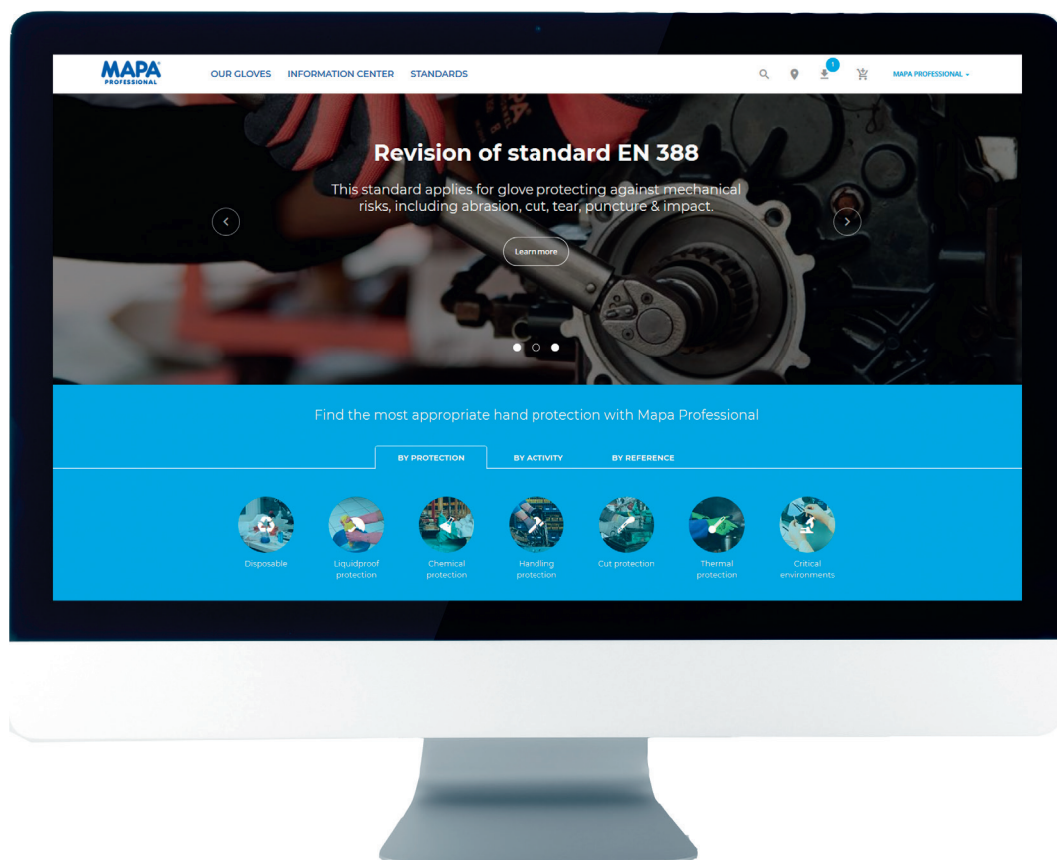
585	12	NA	48	39
586	1	12	48	37
588	1	12	48	35
599	1	12	48	39
600	1	12	48	39
601	12	NA	48	37
610	1	12	48	37
615	12	NA	48	37
622	12	NA	48	37
650	1	NA	6	23
651	1	NA	6	23
700	1	12	72	45
710	1	10	50	45
720	1	12	72	45
770	1	NA	48	45
832	1	12	72	43
833	10	NA	100	31
836	1	12	48	43
838	1	NA	10	43, 49
840	1	12	72	43
850	1	12	48	33
851	1	12	48	43
967	100	NA	1 000	25, 49
977	100	NA	1 000	25
987	100	NA	1 000	27
988	100	NA	1 000	49
990	100	NA	1 000	25
992	100	NA	1 000	25
994	100	NA	1 000	27
995	100	NA	1 000	25, 49
996	100	NA	1 000	25, 49
997	100	NA	1 000	27
998	100	NA	1 000	25
999	100	NA	1 000	25

## Notes



# For more information

[www.mapa-pro.com](http://www.mapa-pro.com)



- **Selection guides**  
for each segment to help you choose the right glove
- **An advanced search engine**  
to find a product based on your own criteria, with a database continuously updated
- **A tool to help you locate**  
your nearest Mapa Professional distributor

And, of course, news, downloadable documents, a technical glossary, an FAQ section, etc.

Find all our  
documentation on  
your smartphone !



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