

CATALOGUE **2020** 

# PROTECTIVE GLOVES

A solution for every hand that works PROFESSIONAL

## **HOW TO READ THIS CATALOGUE?**

# **Step 1**: Identify your protection needs











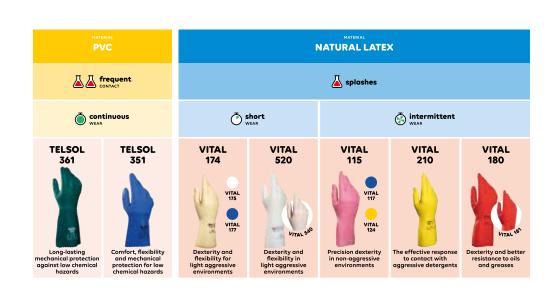
# Step 2: Define the type of glove

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.



# How to read the pictograms?



#### **MANUFACTURE**

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



Work with composite materials (resins)



#### **TRANSPORT**

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



#### **HEALTH**

Pharmaceutical preparation Medical manufacturing Research Hospitals and clinics



#### **FOOD AND DRINK INDUSTRY**

Food handling and preparations



# **CONSTRUCTION INDUSTRY**

Handling construction materials, glazing



Cultivation of fishing products



#### **ENERGY**

Nuclear, wind turbine, petrochemical industries



Handling of detergents Industrial cleaning Small general maintenance iobs

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 manasnontey@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).

### **EUROPEAN LEGISLATION AND STANDARDS**

# 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.

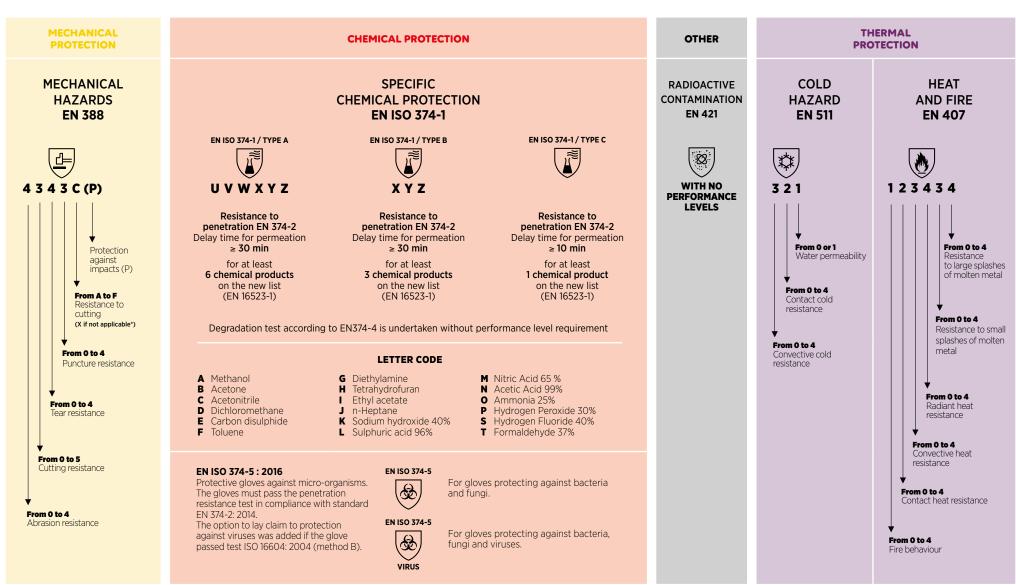
- CAT 3 ----

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:



<sup>\*</sup>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

# Shapes, sizes and thicknesses

# Anatomical or ambidextrous gloves



# Safety cuff

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



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..



# **Anatomical gloves**

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





# **Knitted cuff**

Fits to the hand well and protects the wrist.



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



# **Ambidextrous gloves**

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





Better ventilation of the hand



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



# Rolled cuff Increased resistance

Increased resistance to tearing when putting gloves on



Scalloped cut

Increased service life of the glove

# 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

# 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

# The different types of internal finish

# **Powdered**

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

# **Chlorinated/Easy donning treatment**

Makes it easier to put the gloves on and take them off without increasing the thickness and without using powder.

Reduces the allergy risk of natural latex gloves.

# **Flocked**

Cotton-based textile fibres, covering the inside of the gloves.

Fleeced feel comparable with that of a fine carpet. Good absorption of perspiration.

# **Textile support**

Knitted interior, made from cotton or synthetic materials for increased comfort or specific performance.

MAPA has developed an exclusive technology for manufacturing a glove with textile support. This improves comfort for the user.

Use the «Ultracomfort» pictogram to locate this technology.

# The different textile types:

#### Cotton

Comfort, thermal insulation and absorption of perspiration.

## Polyamide

Optimised dexterity (fine, seamless).

#### Para-aramid

Cutting and heat resistance.

# High density polyethylene

Cut-resistance and optimised dexterity.

### 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



# 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

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

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





#### **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



# **KRYTECH 583**



#### 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

Packaging

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

Individually packed

12 pairs per bag 48 pairs per box



# **KRYTECH 585**



#### 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

Packaging

Washability

• Oekotex which guarantees the absence of certain substances

Individually packed

12 pairs per bag

48 pairs per box

3 times at 60°C

· No painting refusal



**KRYTECH 622** 

CUT LEVEL

#### **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

Individually packed 12 pairs per bag

Packaging 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 اتا

# 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:



			RE MA	COMMENDATION BY APA PROFESSIONAL	•	<b>light</b> protection ● ●	Strong protection	• • Optimal protection
ALCOHOLS (methanol 100%)	67-56-1	Α		•	•	••	•••	••
KETONE (acetone 100%)	67-64-1	В		•		•	•••	
NITRILES (acetonitrile methyl cyanide 99%)	75-05-8	С				•	•••	•
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	н			•	•	•	•
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 ACID (sulphuric acid 96%)	7664-93-9	L	•	•		••	•••	•••
OXIDISING ACID (nitric acid 65%)	7697-37-2	М	•	•••		•••	•••	•••
ORGANIC ACID (acetic acid 99%)	64-19-7	N	•	•		•••	•••	••
ORGANIC BASE (ammonia 25%)	1336-21-6	0	•	•	••		•••	••
PEROXYDE (hydrogen peroxide 30%)	7722-84-1	Р	•••	•••	•••	•••	•••	•••
HYDROFLUORIC ACID (hydrogen fluoride 40%)	7664-39-3	S		•••		•••	•••	••
ALDEHYDE (formaldehyde 37%)	50-00-0	Т	•••	•••	•••	•••	•••	•••
<ul> <li>The most frequently used materials for manufacturing chemical protection gloves.</li> <li>Protection targeted against certain aggressive chemical product families, these are more stringent than for standard materials.</li> </ul>	ction targeted against certain aggressive chemical product families,		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
	A	_	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	

**RESTRICTIONS** 

# 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:

 $\overline{\bot}$  splashes

Chemical substances diluted by immersion or splashes of aggressive substances

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Pure or mixed chemical substances in frequent contact

Pure or mixed chemical substances in frequent contact

─ WEAR TIME

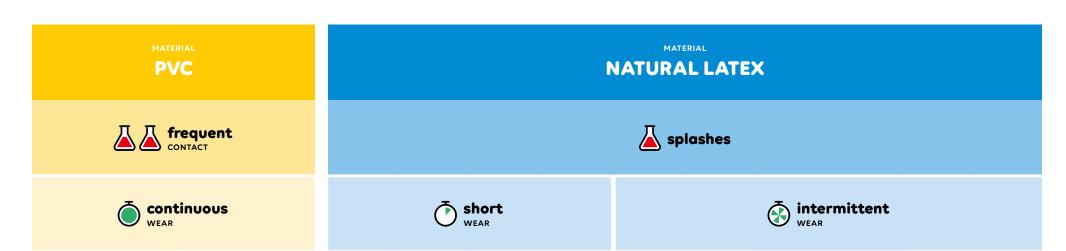
Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).

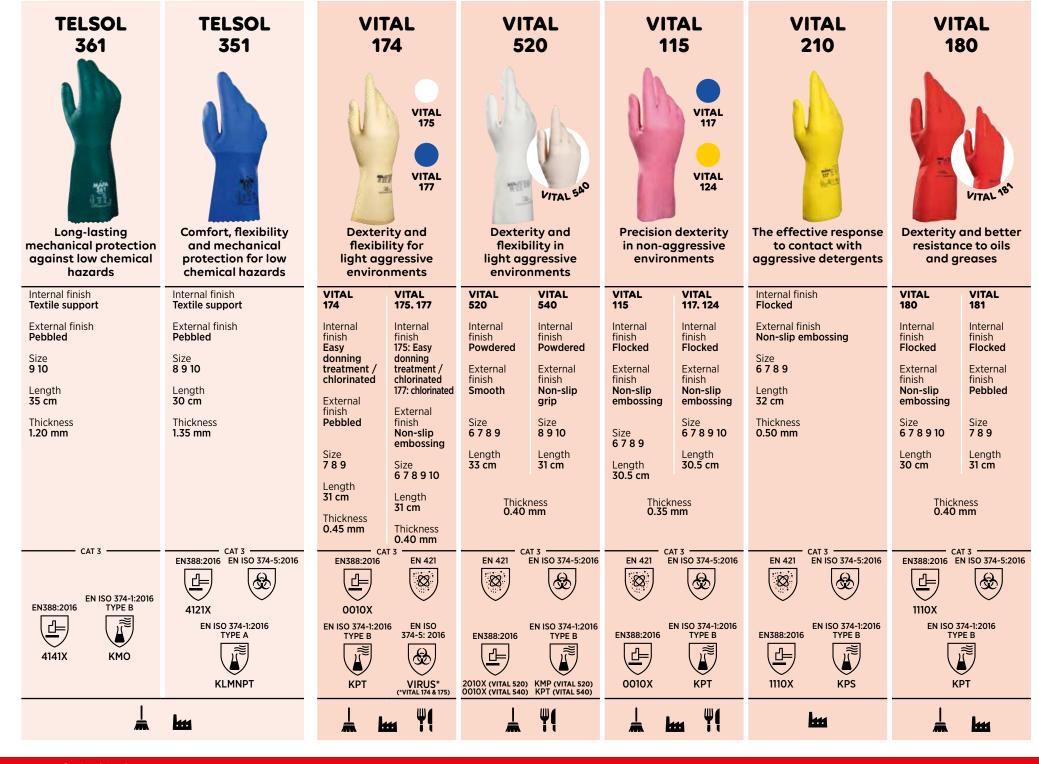
short wear
Chlorinated interior finish

intermittent wear

**continuous** wear

Ultra-comfort wear
MAPA exclusive technology providing greater flexibility





# CHEMICAL PROTECTION JERSETTE - ALTO RANGE



# **HOW CAN YOU REFINE YOUR CHOICE?**

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:

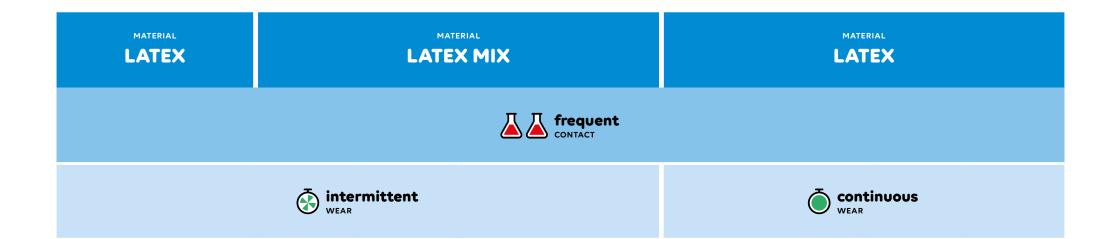
 $\overline{A}$  splashes

**▲ Irequent** contact

**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)



#### **ALTO ALTO JERSETTE JERSETTE** 258 405 415 307 300 ARE IT Strong protection against **Precision dexterity** Fine touch for light chemical **Exceptional comfort** Maximum comfort for aggressive detergents in aggressive environments protection and precision dexterity long-term work in aggressive in light aggressive environments environments Internal finish Internal finish Internal finish Internal finish **JERSETTE 300 JERSETTE 301** Flocked Flocked **Textile support** Flocked Internal finish Internal finish External finish External finish External finish External finish Textile support Textile support Non-slip embossing Non-slip embossing Non-slip embossing Pebbled External finish External finish Size Size Size Smooth Pebbled 678910 678910 67891011 6789 Size Size 5678910 5678910 Length Length Length Length 32 cm 33 cm 32 cm 31 cm Length Length 29-33 cm **Thickness Thickness Thickness Thickness** 29-33 cm 0.60 mm 0.70 mm 0.60 mm 0.75 mm Thickness 1.15 mm - CAT 3 EN ISO 374-1:2016 EN ISO 374-1:2016 EN ISO 374-1:2016 EN ISO 374-1:2016 EN388:2016 TYPE B EN388:2016 EN388:2016 TYPE B EN388:2016 TYPE B TYPE B 4 EN388:2016 EN407 **KPT** 2131X 2110X 1011X 1110X **KPS KMT KMT** EN407 EN ISO 374-5:2016 EN ISO 374-5:2016 EN 421 EN 421 EN ISO 374-5:2016 2120X X1XXXX 83 X1XXXX

# CHEMICAL PROTECTION HARPON - ALTO RANGE



# **HOW CAN YOU REFINE YOUR CHOICE?**

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:

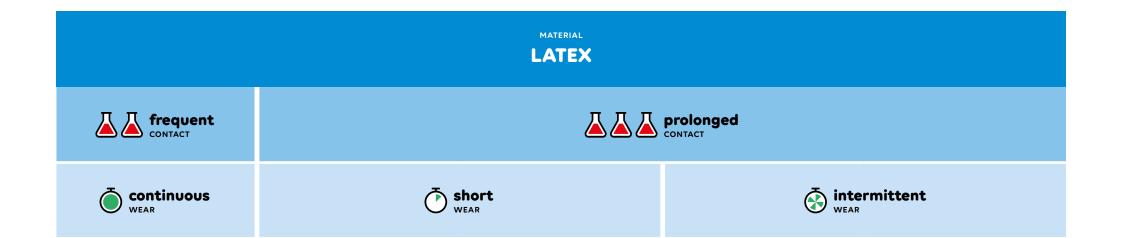
 $\overline{\underline{\mathsf{A}}}$  splashes

**▲ Irequent** contact

**○** 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).

- (Chlorinated interior finish)
- intermittent wear (Flocked interior finish)
- **continuous** wear (Fabric-lined interior finish)
- ultra-comfort wear (MAPA exclusive technology providing greater flexibility)



#### **HARPON ALTO ALTO ALTO ALTO** 321 298 285 260 299 4ARPON32 Comfort and safety when Good mechanical performance Good mechanical performance A good choice when dexterity Good mechanical performance gripping heavy, rough for long-lasting chemical for long-lasting chemical and chemical protection for long-lasting chemical or slippery objects in protection protection is needed for extended wear protection highly-aggressive settings Internal finish Internal finish HARPON 321 **HARPON 325** Internal finish Internal finish Chlorinated Chlorinated Chlorinated Flocked Internal finish Internal finish External finish **Textile support Textile support** External finish External finish External finish Smooth Reinforced grip Non-slip embossing Non-slip embossing External finish External finish Reinforced grip Reinforced grip Size **8 9 10** Size **7 8 9 10 11** Size **7 8 9 10** Size **8 9 10** Size 6 7 8 9 10 Size 8 9 10 Length 42 cm Length **32 cm** Length 31 cm Length 60 cm Length 37 cm Length 32 cm Thickness Thickness Thickness Thickness 0.80 mm 0.90 mm 1 mm 1 mm Thickness 1.35 mm CAT 3 EN ISO 374-1:2016 EN ISO 374-1:2016 EN ISO EN388:2016 EN388:2016 374-5:2016 EN388:2016 374-5:2016 EN407 TYPE A TYPE A EN388:2016 374-5:2016 EN388:2016 374-5:2016 TYPE B TYPE A TYPE A 8 <u>-</u> (B) **&** 3131X AKLMPT 2131X **ABKMPT** 3141X KPT X2XXXX 2120X **AKLMPT** 3121X **AKLMPT** மீ 1

# 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:

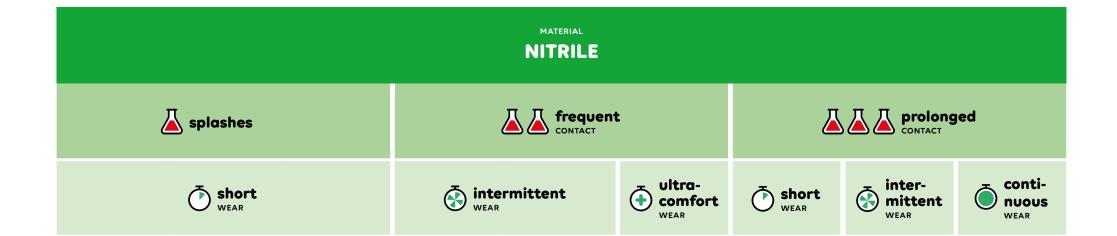
 $\underline{\mathsf{A}}$  splashes

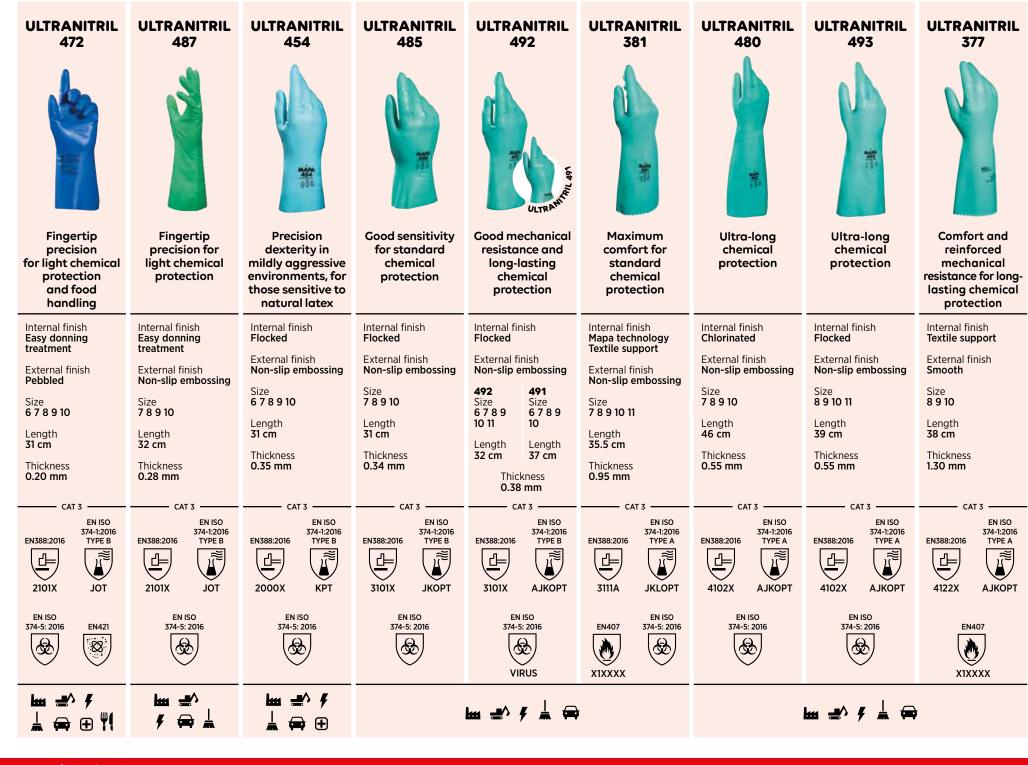
**△ A frequent** contact

WEAR TIME

Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).

- short wear (Chlorinated interior finish)
- intermittent wear (Flocked interior finish)
- **continuous** wear (Fabric-lined interior finish)
- ultra-comfort wear (MAPA exclusive technology providing greater flexibility)





# CHEMICAL PROTECTION 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:

 $lap{\perp}$  splashes

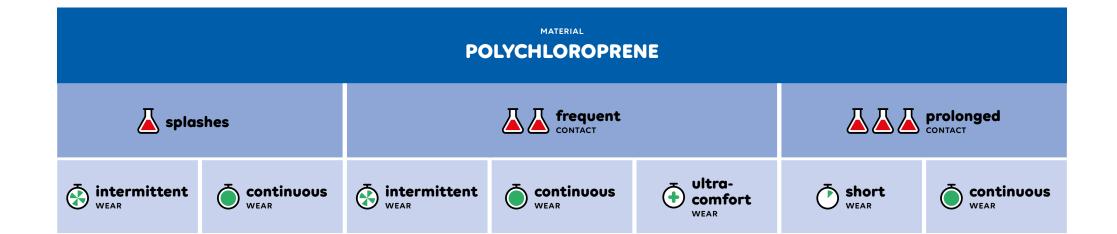
 $\blacktriangle \blacktriangle$  frequent contact

**△△△ prolonged** contact (or immersion)

**WEAR TIME** 

Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).

- **\* short** wear (Chlorinated interior finish)
- intermittent wear (Flocked interior finish)
- **continuous** wear (Fabric-lined interior finish)
- (MAPA exclusive technology providing greater flexibility)



#### **ULTRANEO ULTRANEO ULTRANEO ULTRANEO ULTRANEO ULTRANEO ULTRANEO** 401 340 420 341 382 407 339 ULTRANEC 量 Tactile sensitivity Comfort with light Suppleness and Comfort with Maximum comfort Ultra-high **Comfort and** for light chemical chemical protection freedom of movement standard chemical for standard chemical performance high chemical protection for standard chemical protection protection chemical protection protection protection Internal finish Flocked Flocked Chlorinated Textile support **Textile support** Mapa technology Textile **Textile support** support External finish External finish External finish External finish External finish External finish Non-slip embossing Smooth Non-slip embossing Smooth External finish Non-slip embossing Pebbled Non-slip embossing 420 450 Size Size Size Size Size 78910 78910 8 9 10 11 Size 9 10 9 10 Size Size 678910 7 8 9 10 678910 407 Length 35.5 cm Length Length Length 414 31 cm 38 cm Length 38 cm Length Length Length Length 31 cm 41 cm 35.5 cm 35.5 cm 45.5 cm Thickness Thickness Thickness Thickness 0.55 mm 1.30 mm Thickness 1.45 mm **Thickness** Thickness 1.35 mm 0.75 mm 0.90 mm 0.75 mm CAT 3 CAT 3 CAT 3 CAT 3 EN ISO 374-1:2016 EN388:2016 EN388:2016 EN388:2016 TYPE A TYPE A TYPE A EN388:2016 TYPE A EN388:2016 TYPE A EN388:2016 TYPE A EN388:2016 TYPE A 中 2110X **ALMNST** 2121X **CLMNST** 2121X **ALMNST** 2121X **ACLMNS** 2121X **ALMNST** 2111X **ABCJLMNS** 3121X **ABCJLMNS** EN ISO 374-5:2016 EN407 EN407 EN407 EN407 8 8 8 8 8 8





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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:

 $\overline{\mathsf{A}}$  splashes

**A** frequent contact

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)
- (Flocked interior finish)
- **continuous** wear (Fabric-lined interior finish)
- (A) ultra-comfort wear (MAPA exclusive technology providing greater flexibility)





# **BUTOFLEX** 651



Ultimate specific chemical resistance

# **BUTOFLEX** 650



Ultimate specific chemical resistance

# **FLUOTECH** 468



**Tactile sensitivity** with wear indicator

# **FLUOTECH** 344



Comfort and flexibility for extended wear

- CAT 3

External finish Non-slip embossing

Size **7 8 9 10** 

Length 35 cm

Thickness 0.50 mm

Internal finish

Mapa technology Textile support

External finish Non-slip embossing

Size **7 8 9 10 11** 

Length 35 cm

Thickness 1.50 mm

Internal finish Chlorinated

External finish Smooth

Size **8 9 10** 

Length 30 cm

Thickness 0.50 mm

Internal finish **Textile support** 

External finish Smooth

Size **9 10** 

Length 37 cm

Thickness 1.50 mm

- CAT 3

CAT 3

- CAT 3

EN388:2016



EN ISO 374-1:2016 TYPE A



**ABCILMNOS** 

EN388:2016





**ABCILMNOS** 



EN388:2016





**ADEFGLJMNO** 

TYPE A

EN388:2016 

3121X

EN407



**ACDEFGJLMN** 

EN ISO 374-1:2016

TYPE A

EN ISO 374-5:2016





EN ISO 374-5:2016

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# 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**

# **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.

# 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.

# COLOUR

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

# DIMENSIONS Chaosing the length

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

COMFORT
POWDERED

COMFORT CHLORINATED

EASY DONNING
TREATMENT

**POLYMER** 

**LATEX** 

POWDERED

# **SOLO** 990



The best value for precise movements

# **SOLO** 998



Optimal flexibility and dexterity

# **SOLO PLUS 995**



Optimal flexibility and dexterity

# **SOLO** 992



Optimal flexibility and dexterity

CAT 3

External finish Smooth

Size 6789

Length 24 cm

Thickness 0.08 mm

External finish

Smooth with pebbled fingertips

Size 6789

Length 30 cm

**Thickness** 0.10 mm

External finish Textured

Size 6789

Length 24.5 cm

Thickness 0.10 mm

External finish Smooth

Size 6789

> Length 24 cm

Thickness 0.10 mm

CAT 3



EN ISO 374-5:2016









EN ISO 374-1:2016

CAT 3



EN ISO 374-5:2016



EN ISO 374-1:2016 TYPE C



EN ISO 374-5:2016



EN ISO 374-1:2016 TYPE C



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**

#### **POLYMERS**

(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.

# **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.

# **COLOUR**

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

# **DIMENSIONS**

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

POLYMER

**NITRILE** 

CHLORINATED

**POWDERED** 

POLYMER **TRIPOLYMER** 

CHLORINATED

# **SOLO** 967



**Excellent dexterity** due to the flexibility and fineness of the material. Available bagged and boxed (Solo Ultra 967)

# **SOLO** 977



**Ideal protection** in chemical industry against splashes

# SOLO 999



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

# **SOLO** 987



The perfect protection for light handling in oily environments

# SOLO 996



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

# **TRILITES** 994



Tripolymer formula for protection against chemical splashes and splatters

Internal finish Easy donning treatment

External finish Pebbled

Size **6 7 8 9** 

Length 24.5 cm

Thickness 0.08 mm

CAT 3

Internal finish Chlorinated

External finish Smooth with pebbled fingertips

Size 678910

Length 24 cm

Thickness 0.10 mm

CAT 3

Internal finish Chlorinated

External finish Smooth with pebbled fingertips

Size 6789

Length

**Thickness** 29.5 cm 0.10 mm

Internal finish Chlorinated

External finish Smooth with pebbled fingertips

Size 6789

Length **Thickness** 24.5 cm 0.10 mm

Internal finish Powdered

External finish Smooth with pebbled fingertips

Size 6789

Length Thickness 24.5 cm 0.10 mm

Internal finish Chlorinated

External finish Pebbled

Size **6 7 8 9** 

Length 25.5 cm

Thickness 0.15 mm

EN ISO 374-1:2016 TYPE C



EN ISO 374-5:2016 (B)



EN ISO 374-1:2016 TYPE B



EN ISO 374-5:2016



EN ISO 374-1:2016



EN ISO 374-5:2016



<u>B</u>

EN ISO 374-1:2016 TYPE B



**VIRUS** 

EN ISO 374-5:2016

8

EN ISO 374-1:2016 TYPE B



**KPT** 





**KPT** 

EN ISO 374-1:2016

TYPE B



















**JKT** 

TYPE B



# 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?**

### **ENVIRONMENT**

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

 $\emptyset$  dry and relatively clean environments

• oily and very dirty environments

# ) **S**

# **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.

**Iong** service life

high-performance service life

# **PRECISION WORK**











# **ULTRANE** 548



Optimal dexterity and sensitivity for light protection

ZENDINO





Unbeatable for fingertip precision





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





Comfort, suppleness and high dexterity without any compromise on durability

**ULTRANE** 553



Unbeatable for fingertip precision in dirty environments

**ULTRANE** 500



Assured grip, skin protected and excellent dexterity in slightly oily/dirty

Internal finish Seamless knitted **Textile support** 

External finish Polyurethane coating on palm and fingers Gauge 13

Size

Ultrane 548 67891011 Ultrane 549 678910

CAT 2

EN388:2016

3121X

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

Gauge 13 Size 67891011

Internal finish

Seamless knitted

**Textile support** 

External finish

Polymer coating

with aqueous base

on the palm and fingers

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 67891011

Length 22-27 cm Washable x1

Internal finish Seamless knitted Textile support

External finish Nitrile coating on palm and fingers Gauge 13

Size 678910

Length 22-26 cm

environments Internal finish

Seamless knitted **Textile support** 

External finish Double layer coating: Nitrile Smooth - Roughened Nitrile Ultrane 500 palm and fingers 3/4 coating Ultrane 525

Ultrane 526 complete coating Gauge 13

Size

Ultrane 500 6 7 8 9 10 11 7 8 9 10 11 Ultrane 525 Ultrane 526 7 8 9 10 11

Length 23-28 cm

Washable х5

**OEKO-TEX**® STANDARD 100
CQ 979/2 IFTH

CAT 2

EN388:2016



CAT 2

**OEKO-TEX**®

STANDARD 100



EN407

X1XXXX

EN388:2016

4121X











CAT 2

EN388:2016

**OEKO-TEX**®

STANDARD 100

CAT 2

4131X

EN388:2016





# 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?**

# **ENVIRONMENT**

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

- $\emptyset$  dry and relatively clean environments
- oily and very dirty environments
- **wet** environments

# **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.

- **Iong** service life
- high-performance service life

# **HEAVY-DUTY WORK**









# **TITAN** 833 **Comfort and dexterity** for common tasks Internal finish **Textile support** External finish 3/4 nitrile coating Size 78910 Length 26.5 cm





**TITAN** 





**TITAN** 

397





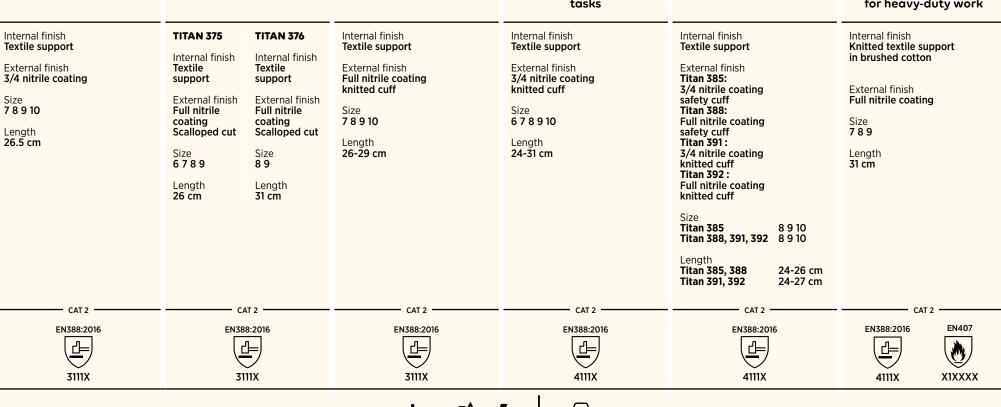
**TITAN** 

385

**Optimised comfort** and maximum durability for heavy-duty work

TITAN

**393** 





# 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?**

### **ENVIRONMENT**

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

- $\emptyset$  dry and relatively clean environments
- oily and very dirty environments
- **wet** environments

# $\mathcal{I}$

# **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.

- Iong service life
- high-performance service life

# **HEAVY-DUTY WORK**











# **TITAN** 328



Flexibility and grip for common handling tasks

# **HARPON** 319





Comfort, reinforced safety and excellent grip in wet environments

# TITAN 850



Shock absorption, durability and comfort for heavy handling work

Internal finish Seamless knitted textile support

External finish Natural latex anti-slip coating on palm and fingers Embossed, anti-slip texture Knitted cuff Gauge 10

Size 8 9 10

Length 24-27 cm

## **HARPON 319**

Internal finish Textile support

External finish
Total coating
in natural latex Embossed, anti-slip texture Knitted cuff

Size **7 8 9** 

Length 25-27 cm

#### **HARPON 330**

Internal finish **Textile support** 

External finish 3/4 coating in natural latex Embossed, anti-slip texture Knitted cuff

Size **6 7 8 9** 

Length 25-27 cm Internal finish

Seamless knitted textile support

External finish

Nitrile coating on the palm and fingers
Double layer coating: smooth nitrile - roughened nitrile
Gauge 13

Size **7 8 9 10 11** 

Length 23.5-27.5 cm

CAT 2



EN388:2016

2142X

EN407 X2XXXX EN388:2016





X1XXXX

CAT 2



4132XP







# 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.

# Magada Sis

## **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?**

### **ENVIRONMENT**

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

 $\emptyset$  dry and relatively clean environments

• oily and very dirty environments

**wet** environments

# ( )

#### 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.

1 low risk - ISO B

**⚠ moderate** risk - ISO C

high risk - ISO D

▲ very high risk - ISO E

# 5

### **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.

 ${\color{red} {\mathbb{Z}}}$  long service life

high-performance service life











# KRYTECH 579





Moderate protection for very precise handling in reasonably clean environments

# 1







Moderate protection with crotch reinforcement for precise handling in reasonably clean environments

# KRYTECH 563



Moderate protection and durability for precise handling in reasonably clean environments

KRYTECH 511



Cut protection for optimum comfort, high level of breathability & durability for precision work

KRYTECH 588



Cutting, grip and dexterity for dry and slightly oily environments

Internal finish Seamless knitted support manufactured from HDPE fibres

External finish
Polyurethane coating
on palm and fingers
Gauge 13

Size Length 6 7 8 9 10 11 22-27 cm

Washable **x5** 

Internal finish Seamless knitted support manufactured from HDPE fibres

External finish
Polyurethane coating
on palm and fingers
Gauge 13

Size Length **6 7 8 9 10 11 27-32 cm** 

Washable **x5** 

Internal finish
Seamless knitted support
manufactured from HDPE
fibres

External finish
Polyurethane coating
on palm and fingers
Gauge 13

Size Length **6 7 8 9 10 11 22-27 cm** 

Washable **x5** 

Internal finish
Seamless knitted support

manufactured from HDPE fibres

External finish
Polyurethane coating on
palm and fingers
Gauge 13

Size Length **7 8 9 10 11 26-31 cm** 

Washable **x5** 

Internal finish
Seamless knitted support
manufactured from HDPE

External finish
Nitrile coating on
palm and fingertips
Gauge 13

Size **7 8 9 10 11** 

fibres

Length 23-27 cm Internal finish
Seamless knitted support
manufactured from HDPE

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

Size Length **7 8 9 10 11 23-27 cm** 

fibres

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
CQ 979/2 IFTH
Tested for harmful substanosa.
www.wakeb. tex-constandard 100

CAT 2

Internal finish
Seamless knitted support
manufactured from HDPE
fibres

External finish Roughened nitrile coating one layer Gauge 13

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

Washable **x1** 

OEKO-TEX ®
CONFIDENCE IN TEXTILES
STANDARD 100
CQ 979/2 IFTH
Tested for harmful substances

- CAT 2 —

EN388:2016 4342B

ISO 13997: 5.3 N

— CAT 2 — EN388:2016



ISO 13997: 5.3 N

EN388:2016



4343B

CAT 2 -

ISO 13997: 5.3 N

— CAT 2 — EN388:2016



4343B

ISO 13997: 5.3 N

— CAT 2 — EN388:2016



ISO 13997: 6.5 N

EN388:2016



ISO 13997: 6.1 N

EN388:2016

CAT 2

4343B

ISO 13997: 5.9 N

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# 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?**

### **ENVIRONMENT**

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

- $\emptyset$  dry and relatively clean environments
- oily and very dirty environments
- wet environments

# 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

### **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
- Iong service life
- high-performance service life





moderate



very high









# **KRYTECH** 601



#### **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

Lenath 23-28 cm

Washable х1

> OEKO-TEX® STANDARD 100

Internal finish Seamless knitted textile support in composite and **HDPE** fibres

External finish Polyurethane coating on the palm and fingers Gauge 13

Size Length 24-29 cm 67891011

Washable х3

> OEKO-TEX® STANDARD 100

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

OEKO-TEX® STANDARD 100 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

х3

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

Internal finish Seamless knitted textile support in composite and

External finish Polyurethane coating on the palm and fingers Gauge 13

**HDPE** fibres

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

Washable

OEKO-TEX® STANDARD 100 Internal finish Seamless knitted textile support in composite and

**HDPE** fibres

External finish Polyurethane coating on the palm and fingers Gauge 13

Size Length 24-29 cm 67891011

Washable х5

> OEKO-TEX® STANDARD 100

#### CAT 2 EN388:2016



1X4XC

ISO 13997: 14.2 N

CAT 2 EN388:2016



ISO 13997: 14.9 N

EN388:2016



CAT 2

4X42C

ISO 13997: 14N

CAT 2 EN388:2016

OEKO-TEX®

STANDARD 100
CQ 979/2 IFTH



4X42C

ISO 13997: 11 N

EN388:2016



CAT 2

ISO 13997: 18.6 N

CAT 2 EN388:2016



4X43D

ISO 13997: 20 N

EN388:2016

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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?**

#### **ENVIRONMENT**

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

- $\emptyset$  dry and relatively clean environments
- oily and very dirty environments
- **wet** environments

# $\mathcal{I}$

#### 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.

- 1 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.

- Iong service life
- high-performance service life











#### **KRYTECH** 580



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

#### **KRYTECH** 599



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

#### **KRYTECH** 600



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

#### **KRYTECH** 585



Enhanced safety, comfort and durability with **Grip & Proof Technology** 

#### **KRYTECH** 582



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

Internal finish

Seamless knitted textile support of HDPE fibre

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

Size 67891011 Length 23-28 cm

**OEKO-TEX**® STANDARD 100

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

STANDARD 100

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 78910 Length 23-28 cm

STANDARD 100
CQ 979/2 IFTH

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

Washable

**OEKO-TEX**® STANDARD 100

CQ 979/2 IFTH Internal finish

Seamless knitted textile support made from composite fibres and HDPE fibres

External finish 3/4 nitrile coating Gauge 13

Size 7891011 Length 23-28 cm

Washable

OEKO-TEX® STANDARD 100
CQ 979/2 IFTH

CAT 2

EN388:2016

4X43D

ISO 13997: 18 N



CAT 2

EN388:2016

4342B

ISO 13997: 6 N

EN388:2016 ᠘



CAT 2

ISO 13997: 13 N

Length 24-29 cm

# 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?**

**ENVIRONMENT** 

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

- $\emptyset$  dry and relatively clean environments
- oily and very dirty environments
- **wet** environments

 $\mathcal{I}$ 

RISK

The higher the level of performance, the greater the ability of the cuff to stand up to the combined effects of the sharpness of the cutting edge and the pressure applied.

⚠ low risk - ISO B

**⚠ moderate** risk - ISO C

high risk - ISO D

very high risk - ISO E







#### **KRYTECH KRYTECH KRYTECH 532** 532 S 538 High-performance protection from HDPE and fiberglass, polyamide ultra-thin thumb loop Moderate protection reinforcement Moderate protection reinforcement made from HDPE, made from HDPE, ultra thin thumb hole in polyamide ultra thin thumb hole in polyamide Width 140 mm Washable **x5** Washable **x5** Width 150 mm Length 45 cm Length 45 cm Width 95 mm Length 60 cm Washable **x5** OEKO-TEX® OEKO-TEX® OEKO-TEX® STANDARD 100 CQ 979/2 IFTH STANDARD 100 CQ 979/2 IFTH STANDARD 100 CQ 979/2 IFTH CAT 2 CAT 2 CAT 2 EN388:2016 EN388:2016 EN388:2016 334XB 334XB 4X4XD ISO 13997: 5.3 N ISO 13997: 5.3 N 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?**

#### **ENVIRONMENT**

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

- $\emptyset$  dry and relatively clean environments
- oily and very dirty environments
- **wet** environments

## $\mathcal{D}$

#### **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.

1 low risk - ISO B

high risk - ISO D

▲ very high risk - ISO E

# ζ

#### **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.

Iong service life

high-performance service life



#### **KRYTECH KRYTECH KRYTECH KRYTECH KRYTECH KRYTECH KRYTECH** 836 838 832 840 380 395 851 **GRIP**& **GRIP**& **PROOF PROOF Excellent cutting** Reinforced cut High-level protection **High-level protection** Moderate protection **Lasting chemical** High-level cutting protection and protection for the for handling heavy. for handling heavy or against cutting, grip protection and cut protection, shock resistance to wear sharp objects in dry food industry. sharp objects in wet and skin protected protection combined absorption. with optimum **Ambidextrous** and relatively clean environments for heavy handling durability and dexterity and environments operations in oily/dirty comfort for heavy comfort environment handling work Internal finish Seamless knitted textile Seamless knitted lining Seamless knitted textile Seamless knitted textile Seamless knitted textile Multi-layer technology: Seamless knitted textile made from HDPE fibers support made from HDPE support made from support made from support made from cotton combination of support made from HDPE and HDPE fibres and composite fibres and composite fibres composite fibres composite fibres high strength and nitrile External finish fibres External finish Gauge 10 External finish External finish External finish External finish Leather covering on palm Leather covering on palm Latex palm and fingers/ 3/4 double layer coating: External finish Double nitrile layer coating: with thumb/forefinger with thumb/forefinger Non-slip embossing Smooth nitrile -Smooth nitrile -Size Textile support reinforcements 67891011 reinforcements Roughened nitrile Roughened nitrile palm Gauge 10 Gauge 13 Gauge 10 Safety cuff Size **8 9 10** and fingers Length Washable Size Gauge 13 78910 Size 34 cm x20 Size Size 8 9 10 11 Size **7 8 9 10** 7891011 7 8 9 10 11 Length Lenath 32 cm Length Washable Length Washable 23-26 cm Length 27-32 cm 23-26 cm Length 25-28 cm х5 х5 25-27 cm CAT 3 CAT 2 CAT 2 CAT 2 CAT 2 EN388:2016 EN ISO 374-1:2016 TYPE B <u></u> FN388:2016 EN407 FN388:2016 EN388:2016 EN407 EN388:2016 EN407 EN388:2016 EN407 EN388:2016 4X43D JKOPT EN407 EN ISO 374-5:2016 4X43DP X1XXXX X1XXXX 4X43D 2X4XE 4X43E X1XXXX 3X43D X2XXXX 4344B ISO 13997: 17.2 N ISO 13997: 24.2 N ISO 13997: 24.3 N ISO 13997: 19.8 N ISO 13997: 7.6 N ISO 13997: 17.6 N 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?**

**TEMPERATURE** 

According to the temperature of the objects to be handled.

Temperature - 10°C

Temperature up to 150°C

Temperature above 150°C

**ENVIRONMENT** 

Depending on the environment in which you are working.

• wet environments

 $\emptyset$  **dry** environments

• moderately oily environments

chemical environments

**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)

Iong service life

high-performance service life

**CONTACT TIME (HOT)** 

( short contact

prolonged contact

TEMPERATURE





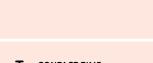








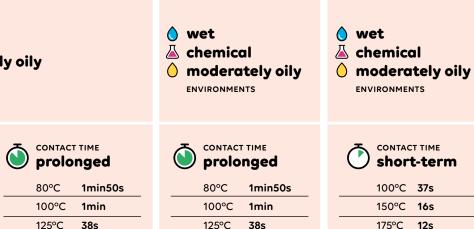
 80°C	70s
100°C	30s
125°C	20s



up to 150°C

80°C	1min50s
100°C	1min
125°C	38s





#### **TEMPICE 770**



Thermal insulation 100% sealed for protecting against intense contact cold

#### **TEMPICE** 700



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

#### **TEMPDEX** 710



High dexterity and thermal protection

**TEMPDEX 720** 



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

**TEMPCOOK** 476



Hygienic with hightemperature thermal protection 100% liquidproof

#### **TEMPTEC 332**



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

Internal finish Jersey textile support lined with a woollen sleeve

External finish Pebbled PVC coating

Size Length 9 10 30 cm

Internal finish Seamless knitted textile support

CAT 2

External finish 3/4 nitrile coating Gauge 15

Size Length **7 8 9 10 24-27 cm** 

Washable х5

Internal finish Seamless knitted textile support

External finish Nitrile coating and dot embossing on palm and finger Gauge 13

Size Lenath 7911 24-28 cm Internal finish

Knitted seamless textile support made from aramid fibres.

External finish Nitrile coating and dot embossing on palm and finger Gauge 10

Size Length 7 9 11 24-28 cm Internal finish Knitted thermal protection

External finish Non-slip embossing Nitrile coating

7(S) 9(M) 10(L)

Internal finish Knitted thermal protection

External finish Pebbled Neoprene coating

Size Length 8 9 10 35,5 cm

CAT 3

EN ISO 374-1:2016 EN388:2016 TYPE B



4221X

EN511 \*

KMO EN ISO 374-5:2016



EN388:2016



3222X



EN388:2016 凸

4111X



EN407

EN388:2016

4343B



EN407

ISO 13997: 10.2 N

EN388:2016 (4)

4443D

EN ISO 374-1:2016

TYPE A

**AFGJOT** 

CAT 3

EN511



Length

45 cm

X2XXXX

EN407



EN388:2016 4

2212X

EN511



EN ISO 374-1:2016

TYPE A

**ACLMNS** 









121

























# 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** website

mapa-pro.com

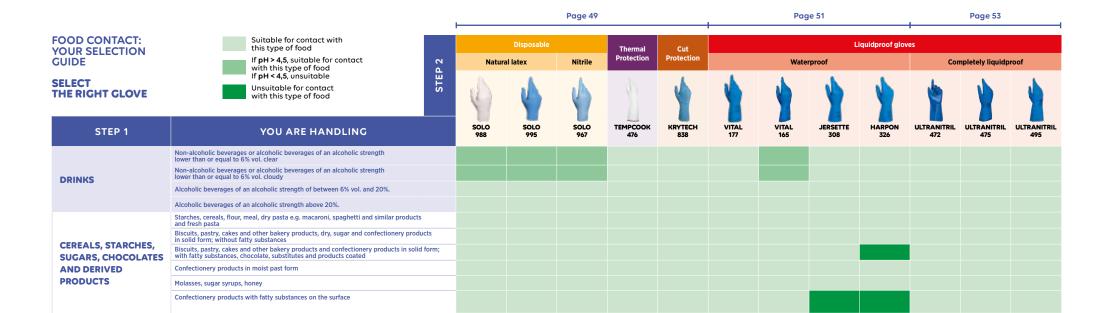


#### SELECT THE RIGHT GLOVE FOR YOU ACCORDING TO THE FOOD HANDLED

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.



	Whole fruit, fresh or chilled, unpeeled; dried or dehydrated fruits; nuts shelled and roasted							
	Fresh vegetables, peeled or cut							
FRUIT, VEGETABLES	Processed: cut, in the form of purées, paste or preserved in an aqueous medium, including pickled and in brine							
AND DERIVATIVES	Processed in an alcoholic medium							
	Preserved vegetables in an oily medium							
	Preserved fruits in an oily medium							
	Nuts in paste or cream form							
FATS	Animal or vegetable, natural or treated							
AND OILS	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							
ANIMAL PRODUCTS AND EGGS	Meat of all zoological species, fresh, chilled, salted, smoked or in the form of paste, creams							
T NODOCTO AND EGGS	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							
	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							
DAIRY PRODUCTS	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							
	Sauces with aqueous character							
	Sauces with fatty character (e.g. mayonnaise, salad creams)							
DRESSINGS	Mustard							
	Vinegar							
	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)							
MIXED	Soups, sauces, broths powdered or dried but without fatty characters (including yeast)							
FOOD PREPARATIONS	Soups, sauces, broths in any other form with fatty characters (including yeast)							
PREPARATIONS	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							
	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							
OTHERS	Cocoa powder							
	Cocoa paste							
	Concentrated extracts of an alcoholic strength equal to or exceeding 6% vol.							
	Frozen or deep-frozen foods							
	lce-creams							

# 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.

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	DISPOSABLE GLOVES	THERMAL PROTECTION	CUT PROTECTION		
NATURAL LATEX		MATERIAL NITRILE	MATERIAL NITRILE	TEXTILE FIBRE	
FINISHING POWDERED	FINISHING CHLORINATED	FINISHING CHLORINATED			



The perfect protection for light food handling





The perfect protection for light food handling

SOLO 967



Great value for light handling of oily food Exist in bag and box

**TEMP-COOK** 476



Hygiene and effective thermal protection 100% liquid-proof

CAT 3

EN511

111

**KRYTECH** 838



Reinforced cut protection for the food industry. **Ambidextrous** 

CAT 2

EN388:2016

2X4XE

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 67891011

Length 34 cm

Washable x20

CAT 3

EN ISO 374-1:2016



EN ISO 374-5:2016



EN ISO 374-1:2016 TYPE C



EN ISO 374-5:2016



EN ISO 374-1:2016 TYPE C



EN ISO 374-5:2016



4443D

EN388:2016

EN ISO 374-1:2016 TYPE A

**AFGJOT** 



X2XXXX

EN407

ISO 13997: 24.2 N

TYPE C



CAT 3



CAT 3

# LIQUIDPROOF PROTECTION LATEX

#### **HOW CAN YOU REFINE YOUR CHOICE?**

#### **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)

 $\mathcal{I}$ 

#### **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 Short WEAR intermittent WEAR COntinuous WEAR







**JERSETTE** 



**HARPON** 

Comfortable and suitable Comfort and safety for gripping for long-term work bulky, slippery foods

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



EN ISO 374-5:2016

EN ISO 374-1:2016 TYPE B



EN421



EN38



- CAT 3

EN ISO 374-1:2016 TYPE B

KPT

EN407



EN388:2016



3141X



EN407 X1XXXX

- CAT 3

# LIQUIDPROOF PROTECTION NITRILE

#### **HOW CAN YOU REFINE YOUR CHOICE?**

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:

 $\overline{\bot}$  splashes

**△ A frequent** contact

AAA prolonged contact (or immersion)

#### **WEAR TIME**

Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).

- short wear (Chlorinated interior finish)
- intermittent wear (Flocked interior finish)
- continuous wear (Fabric-lined interior finish)
- ultra-comfort wear
   (MAPA exclusive technology providing greater flexibility)

5

#### **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.



#### **ULTRANITRIL** 472



**Fingertip precision** for handling oily foods

#### **ULTRANITRIL** 475



Liquidproof and strong for handling oily foods

#### **ULTRANITRIL** 495



The lasting solution for safe handling of oily foods

Internal finish Chlorinated

External finish Pebbled

Size **6 7 8 9 10** 

Length 31 cm Thickness **0.20 mm**  Internal finish Flocked

External finish
Non-slip embossing

Size **6 7 8 9 10** 

Thickness **0.34 mm** Length 31 cm

Internal finish Flocked

External finish
Non-slip embossing

Size **6 7 8 9 10** 

Length 30-33 cm Thickness **0.38 mm** 

CAT 3



2101X

EN ISO 374-1:2016 TYPE B



JOT

EN ISO 374-5:2016



EN421

EN388:2016



3001X

TYPE B JOT

EN ISO 374-1:2016

EN ISO 374-5:2016

CAT 3



EN388:2016



**AJKOPT** 

EN ISO 374-1:2016

TYPE A

CAT 3

EN ISO 374-5:2016



# CRITICAL ENVIRONMENT PROTECTION

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

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

#### QUALITY GUARANTEES AT EVERY STAGE OF PRODUCTION

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

# YOUR PRIORITIES ARE OUR PRIORITIES

- improving the effectiveness of the users, their productivity and their safety, by designing gloves that are ever-more effective and safe to use,
- increasing production yields by reducing the amount of contaminants in products.

#### **ADVANTECH** 529



Reinforced mechanical resistance for short duration operations

#### **ADVANTECH** 519



The chemical protection of nitrile combined with excellent mechanical resistance

#### **ADVANTECH** 517







**ADVANTECH 522** 

An exclusive, comfortable tripolymer for optimum mechanical and chemical resistance

Material Nitrile

Material Nitrile

Material

Mixed formulas (latex, Neoprene and nitrile)

Internal finish Chlorinated

External finish Smooth with pebbled fingertips

Size 678910

Length 30 cm

**Thickness** 0.10 mm

Internal finish Chlorinated

External finish Chlorinated

Size 78910

Lenath 33 cm

**Thickness** 0.30 mm

**REF 513** 

Internal finish Chlorinated

External finish Pebbled fingertips

Size 9

Length 30 cm

Thickness 0.20 mm

**REF 514** 

Internal finish Chlorinated

External finish Non-slip embossing

Size 78910

Length 38 cm

Thickness 0.50 mm

**REF 517** 

Internal finish Chlorinated

External finish Non-slip embossing

Size 678910

Length 36 cm

Thickness 0.50 mm

**REF 522** 

Internal finish Chlorinated

External finish Non-slip embossing

Size 8 9 10

> Length 61 cm

Thickness 0.50 mm

CAT 3

EN ISO 374-1:2016

EN ISO 374-5:2016 TYPE B 8



EN421

EN388:2016

2001X

EN ISO 374-1:2016 TYPE A

CAT 3

EN ISO 374-5:2016

8

JOT

**KPT** 



EN ISO 374-1:2016

TYPE B



EN ISO 374-5:2016

EN421

CAT 3



EN388:2016



EN ISO 374-1:2016 TYPE B



CAT 3

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	47, 51
174	1	10	100	13
175	1	10	100	13
177	1	10	100	13, 47, 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	5 50	
299	1	5 50		17
300	1	5	5 50	
301	1	5	50	15
307	1	5	50	15
308	1	5	50	47, 51
319	1	5	50	33
321	1	NA	50	17
325	1	5	50	17
326	1	5	50	47, 51
328	1	12	96	33
330	1	5	50	33
332	1	NA		
339	1	NA		
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
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522	1	6	48	55
525	1	12	96	29
526	1	12	96	29
529	100	NA	1 000	55
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
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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

13 31 31
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601	12	NA	48	37
610	1	12	48	37
615	12	NA	48	37
622	12	NA	48	37
641	1	12	96	29
650	1	NA	6	23
651	1	NA	6	23
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710	1	10	50	45
720	1	12	72	45
770	1	NA	48	45
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836	1	12	48	43
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967	100	NA	1 000	27, 47, 49
977	100	NA	1 000	27
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990	100	NA	1 000	25
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995	100	NA	1 000	25, 47, 49
996	100	NA	1000	27
997	100	NA	1 000	27
998	100	NA	1 000	25
999	100	NA	1 000	27

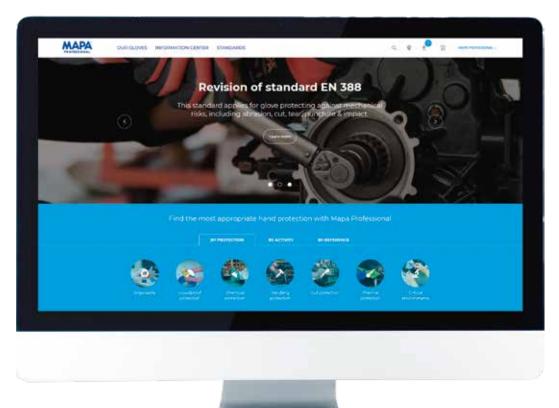
# **Notes**





# For more information

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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