

2023 CATALOGUE

PROTECTIVE GLOVES

A solution for every hand that works



Corporate Social Responsability initiative "Our Caring Actions"

Our long-term perspective centres around a process of continuous improvement to develop more responsible sourcing, mitigate our environmental impact and improve social standards with concrete actions and specific goals set within 2025. We are striving to meet our stakeholders' expectations whilst working towards a greener future in which we play an active role in terms of sustainability as we firmly believe that all our efforts, our caring actions for you,

for us, no matter how big or small,

once combined and multiplied,

will have a positive impact.





TIME-HONOURED EXPERTISE AND KNOW-HOW

- An industrial expertise in gloves manufacturing since 1957
- Materials and products are traced and controlled to be compliant with our quality policy
- 100% of our factories certified ISO 9001 (quality management)

PRODUCT PERFORMANCE THAT GOES BEYOND THE STANDARDS

- Exclusive tests on products beyond the PPE standards for:
 performance
 innocuousness
- comfort durability

Some products are OEKO TEX certified, DMF-free or undergo dermatological tests

- A REAL COMMAND OF JOB-RELATED RISKS
 In-depth workstations analyses at workplaces to identify users' needs
- Tailor-made recommandations

TO BE CONTINUALLY INNOVATING

- 30 R&D experts to take our innovations further still
- Tests conducted on our own laboratories in real conditions
- Innovation every year

2025 GOALS

Develop a decision support solution for our users to offer them better protection and efficiency



PROTECTING THE PEOPLE WHO MANUFACTURE OUR GLOVES

- Safe and ergonomic workplaces: 100% of employees are equipped with appropriate PPE and are trained in safety issues
- Strict ethics policy (human rights and anti-corruption)
- Our factories are certified ISO 45001
- BSCI or SEDEX audits carried out in our factories each year
- All our subcontractors are committed to our code of conduct, and all those in high-risk areas are audited annually

ENSURING A CARING CORPORATE CULTURE

- Our objective is to create best working conditions for our employees
- Active social policy that goes beyond legal requirements
- Working actively to maintain professional equity within all our employees

GETTING INVOLVED LOCALLY

- Relationship of dialogue with the local authorities and communities in the countries in which we operate
- Raw materials and packaging sourced close to our factories
- A culture of caring, listening and solidarity: all mobilised in local actions

2025 GOALS

Train 100% of our employees in CSR matters

Reduce our work-related incident rate by 40% in 5 years (from 2020)



A REDUCED ENVIRONMENTAL FOOTPRINT

- Selection of the most responsible raw materials possible
- Close environmental footprint monitoring of our factories certified ISO 14001
- Reduction of our transport- related Greenhouse Gas emissions by 5% (Fret 21 programme)

AN ECO-DESIGN INITIATIVE

- Life Cycle Analyses carried out to identify where our main environmental impacts lay
- 50% of mechanical gloves are washable for:

 ① extended use

 ① waste reduction
- 100% of packaging is recyclable
- Optipack programme: plastic savings thanks to reduced packagings (-22 tonnes in 2020)

2025 GOALS

Look for more sustainable raw materials for each new development

Reduce the environmental footprint of our factories (participation in Newell targets from 2016 to 2025)





-90% in waste sent to landfill



-30% in greenhouse

Continue to reduce our plastic packaging Extend products' lifespan by targeting 100% of cut-resistant gloves washable

Investigate on improved product's end-of-life (recycling and donation)

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



Integrated production

(3 factories worldwide)



1 Application laboratory

With tests exclusive to MAPA Professional which reproduce

HOW TO READ THIS CATALOGUE?

Step 1: Identify your protection needs











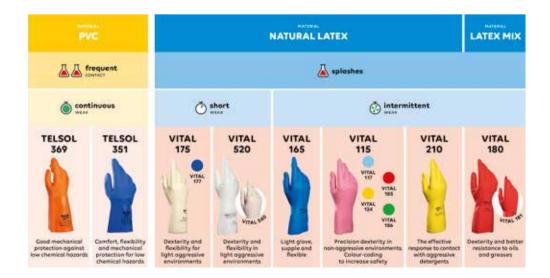
Step 2: Define the type of glove

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?



Fitting and assembling parts Paint spraying Handling chemical compounds Manufacturing composites Handling chemical drums



AERONAUTICS Work with composite materials (resins)



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 Glazina



MARITIME Cultivation of fishing products



AGRICULTURE Handling of diluted and concentrated pesticides Re-entry tasks





CLEANING Handling of detergents Industrial cleaning
Small general maintenance jobs





Pairs/Masterbag



Regulation (EU) 2016/425

Why a PPE Regulation?

Protective gloves are PPE (Personal Protective Equipment) and must comply with the European Regulation 2016/425 in order to freely circulate within the European Union.

The Regulation 2016/425 contains the requirements that PPE must satisfy to guarantee the health and safety of users.

That means that PPE must protect up to the required levels without compromising the user's health.

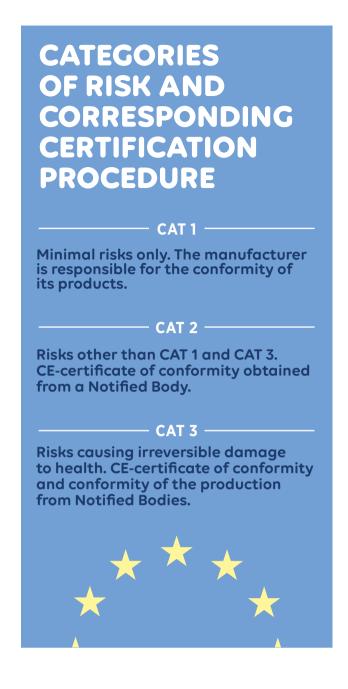
Harmonised European standards (EN 388, EN ISO 374-1...) are used in the certification process to assess conformity of the product to the requirements of the PPE Regulation in relation to the risks against which the product is intended to offer protection. The manufacturer must indicate the conformity of the product by CE marking it. He must also provide a EU declaration of conformity.

PPE Regulation (EU) 2016/425

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

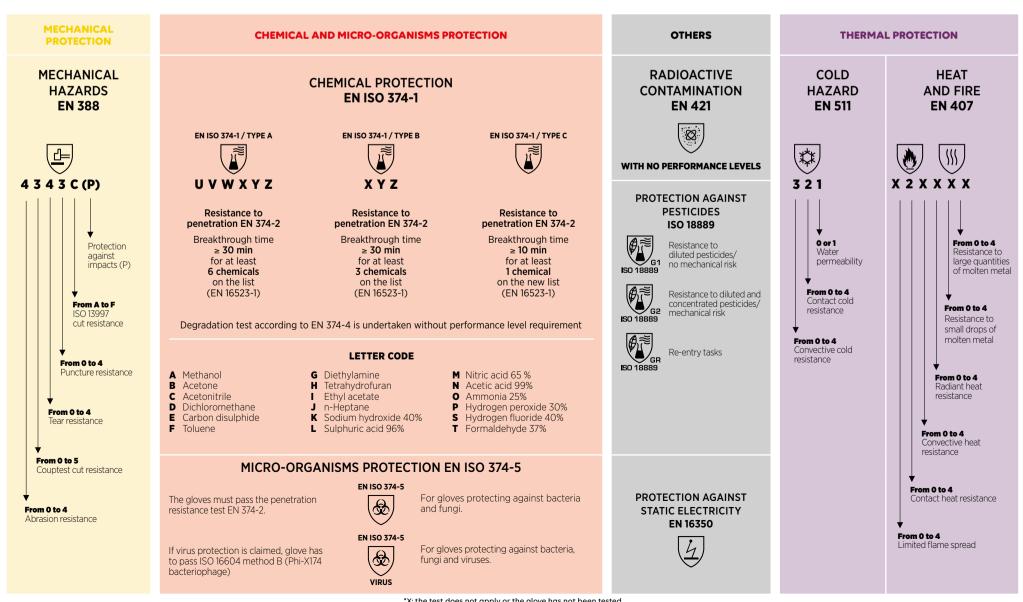
Regulation (EU) 2016/425 and Directive 89/656/EEC

Regulation (EU) 2016/425 stipulates the essential health and safety requirements for designing and manufacturing PPE, as well as the responsibility of manufacturers or importers and conformity procedures to affix the CE marking on PPE. Directive 89/656/EEC is dedicated to professional users of PPE. It lays down the responsibilities of employers to supply their employees with adequate CE-marked PPE and ensure their safe use.



How to read the standards

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



Standards information

PROTECTION AGAINST PESTICIDES

GLOVE CLASSIFICATION

Protective gloves are classified into 2 categories:

ISO 18889: 2019 STANDARD

Protective gloves for pesticide operators and re-entry workers

BACKGROUND

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

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

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



STATIC ELECTRICITY

Which standard deals with electrostatic properties?

GLOVES STANDA	ARDS REQUIREMENT	TEST METHOD	PICTOGRAM
ATEX environment	EN 16350 Vertical resistance: <10 ⁸ Ω at 25% relative humidity	EN 1149-2	Introduced in EN ISO 21420: 2020 EN 16350 NEW
	*The tests must be performed on 5 samples which must all pass the limit of vertical resistance		NEW LA
Protection of electronic devices from ElectroStatic Discharge (ESD)	No standard	No test method	No pictogram

ESD: MAPA PROFESSIONAL POSITION

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

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

Standards chana

EN 407

The EN 407 standard was revised in 2020.

The main reason for the revision is the inclusion of thermal protection articles for private use (oven gloves, potholders, etc.) in the new PPE Regulation (EU) 2016/425.

The performance levels remain unchanged!





Protective gloves and other hand protective equipments against thermal risks



EN ISO 21420

The EN 420 standard was revised in 2020 becoming standard EN ISO 21420.

This updated standard newly specifies the general requirements and test methods for glove design and construction, safety, comfort and performance, as well as the marking and information provided by the manufacturer applicable to all protective gloves.

The new **EN ISO 21420** additionally applies to: ▶ **mittens**

- pot holders
- arm protectors



UNDERSTANDING THE SPECIFIC FEATURES OF A GLOVE FOR AN INFORMED CHOICE

Different cuff edging Depending on your use

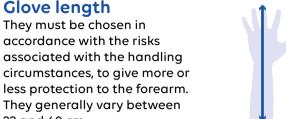
Shapes, sizes and thicknesses

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.



Anatomical gloves

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





Knitted cuff

Straight cuff

Rolled cuff

doffing gloves

Improved hand ventilation

Provides a good fit for the hand and protects the wrist



22 and 60 cm.

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.



Scalloped cut

Longer service life for the glove

Reduces the risk of tearing when

Glove thickness

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





Various external finishes to suit your needs



Smooth

No marking of objects being handled



Reinforced grip

Excellent grip in wet environment



Non-slip embossed

Excellent grip in oily environments



Dot embossing

Improved thermal insulation



Pebbled

Good grip and minimal glove fouling

MAPA TECHNOLOGIES (SEE NEXT PAGE)



Increased protection against acids for high end performance



GRIP & PROOF TECHNOLOGY

Excellent grip in oily environments combined with liquid-proof protection

in palm area



Comfort and allows hand to breathe without compromising durability

The different types of internal finish

Powdered

Makes it easier to don and doff gloves, without having to increase the thickness of the glove.

Chlorinated/Easy donning treatment

Makes it easier to don and doff gloves without increasing the thickness and without using powder.

Reduces the allergy risk of natural latex gloves.

Flocked

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

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:

Comfort, thermal insulation and sweat absorption.

Polyamide

Optimised dexterity (thin, seamless).

Para-aramid

Cut and heat resistance.

High density polyethylene Cut-resistance and optimised dexterity.

UNDERSTANDING OUR TECHNOLOGIES





GRIP

- Excellent grip when handling oily parts with or without cut risks
- Prevents the risk of dropping objects
- Reduction in muscle fatigue and risk of RSI (Repetitive Strain Injury)
- Improves productivity

RESISTANCE

- The durable coating allows long-lasting use
- Glove stays clean and effective for longer due to its liquid resistance
- Optimised costs

SKIN PROTECTION

- Impermeable at strategic points
- Protects from irritant oils
- Reduces the wearer's risk of eczema and dermatitis

Thanks to our expertise and reliable use testing, MAPA PROFESSIONAL has designed a range of gloves with or without cut protection, with GRIP&PROOF technology for oily or greasy environments. This technology is used in our ULTRANE and KRYTECH ranges.



COMFORT AND BREATHABILITY

- Excellent dexterity at fingertips
- Second skin effect
- Suppleness and flexibility
- Breathability: Greater circulation of air protects against sweat

DURABILITY

- Extended use guaranteed by our exclusive process
- Resistance to friction thanks to a highly resistant coating
- Optimised costs

SKIN PROTECTION

- DMF free
- Free from harmful substances
- STANDARD 100 by OEKO-TEX®

Thanks to our expertise and reliable use testing, MAPA PROFESSIONAL has designed a range of gloves with or without cutting protection, with RESICOMFORT technology for dry environments. This technology is used in our ULTRANE and KRYTECH ranges.

NEW PRODUCTS

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





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.

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.



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

www.mapa-pro.com

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:

	CAS	EN 374	PVC	NATURAL LATEX	NITRILE	POLY- CHLOROPRENE	BUTYL	FLUORO- ELASTOME
				Common p		Specific polymers**		
				COMMENDATION BY APA PROFESSIONAL		.ight protection • •	Strong protection	• • Optimal protection
COHOLS (methanol 100%)	67-56-1	Α		•	•	••	•••	••
TONE (acetone 100%)	67-64-1	В		•		•	•••	
FRILES (acetonitrile methyl cyanide 99%)	75-05-8	С				•	•••	•
ILORINATED SOLVENTS (methylene chloride/dichloromethane 99%)	75-09-2	D						•
LPHUR-BASED CHEMICALS (carbon disulphide 100%)	75-15-0	E						•••
OMATIC SOLVENTS (toluene 100%)	108-88-3	F						•••
IINES (diethylamine 98%)	109-89-7	G			•			••
HERS (tetrahydrofuran (THF) 100%)	109-99-9	н			•	•	•	•
TERS (ethyl acetate 99%)	141-78-6	I				•	•••	
IPHATIC SOLVENTS (heptane 99%)	142-82-5	J	•		•••	••		•••
KALIS (sodium hydroxide (soda) 40%)	1310-73-2	К	•••	•••	•••	•••	•••	•••
IDISING ACID (sulphuric acid 96%)	7664-93-9	L	•	•		••	•••	•••
IDISING ACID (nitric acid 65%)	7697-37-2	М	•	•••		•••	•••	•••
CANIC ACID (acetic acid 99%)	64-19-7	N	•	•		•••	•••	••
CANIC BASE (ammonia 25%)	1336-21-6	0	•	•	••		•••	••
ROXIDE (hydrogen peroxide 30%)	7722-84-1	P	•••	•••	•••	•••	•••	•••
DROFLUORIC ACID (hydrogen fluoride 40%)	7664-39-3	s		•••		•••	•••	••
DEHYDE (formaldehyde 37%)	50-00-0	Т	•••	•••	•••	•••	•••	•••

Not suitable for

handling hot parts

ADVANTAGES

RESTRICTIONS

Not recommended

for cold

environments

Poor mechanical

properties

Poor mechanical

properties

environments

Risk of allergies

caused by the

natural latex

CHEMICAL PROTECTION REUSABLE: TELSOL - VITAL 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:

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ Irequent contact

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 Flocked interior finish

continuous wear

Fabric-lined interior finish ultra-comfort wear

MAPA exclusive technology providing greater flexibility MATERIAL MATERIAL **NATURAL LATEX LATEX MIX PVC** Frequent CONTACT **k** splashes short intermittent continuous **WEAR TELSOL TELSOL** VITAL VITAL VITAL VITAL VITAL VITAL 369 351 175 520 115 210 180 VITAL VITAL 117 VITAL 185 VITAL 124 VITAL 18 VITAL **Dexterity and Good mechanical** Comfort, flexibility **Dexterity and** Light glove, Precision dexterity in The effective Dexterity and better protection against flexibility for flexibility in and mechanical supple and non-aggressive environments. response to contact resistance to oils protection for low low chemical hazards light aggressive light aggressive flexible Colour-coding with aggressive and greases chemical hazards environments environments to increase safety detergents Internal finish 175: Easy donning treatment Powdered **Textile support Textile support** Flocked Flocked Flocked Flocked External finish 520: Smooth 540: Non-slip grip 180: Non-slip embossed 181: Pebbled Non-slip embossed Non-slip embossed Pebbled Pebbled Non-slip embossed External finish Size **9 10** Size **8 9 10** Non-slip embossed 78910 6789 Size **520: 6 7 8 9** Size 180: 6 7 8 9 10 117/124/185/186: 6 7 8 9 10 Size Length 678910 Length 35 cm 30 cm 30 cm 32 cm Length **30.5 cm** Length Length Length Thickness Thickness Thickness Thickness 180: 30 cm 1.20 mm 1.35 mm 540: 31 cm 0.29 mm 0.50 mm 181: 31 cm Thickness Thickness 0.40 mm Thickness 0.35 mm 0.40 mm 0.40 mm *See food *See food compatibility chart, p. 56 compatibility chart, p. 56 CAT 1 EN 388 EN ISO 374-5 EN 421 EN ISO 374-5 EN ISO 374-5 EN 388 EN 388 EN 421 EN 388 EN 388 EN ISO 374-5 EN 421 4 4 4 Ø Ø (B) 些 **B** 8 (B) 88 2010X (VITAL 520) 0010X (VITAL 540) 0010X 4121X 1110X 3131X VIRUS EN ISO 374-1 EN ISO 374-1 TYPE B EN ISO 374-1 EN ISO 374-1 **EN ISO** EN ISO 374-1 EN ISO 374-1 TYPE B EN ISO 374-1 TYPE B TYPE A EN 421 EN 388 (B) <u>&</u> 學 Ø Ø VIRUS* (*VITAL 175) **KLMNPT KPT** 1110X **KPS KPT** *only for 180 **KPT** 0010X 111 ## 444 444

x10 x100

CHEMICAL PROTECTION REUSABLE: ALTO - JERSETTE 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:

 $\underline{\mathbb{A}}$ splashes

Chemical substances diluted by immersion or splashes of aggressive substances

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 Flocked interior finish

continuous wear Fabric-lined interior finish

ultra-comfort wear

MAPA exclusive technology providing greater flexibility MATERIAL MATERIAL MATERIAL **LATEX MIX LATEX LATEX** Frequent CONTACT intermittent continuous **ALTO ALTO ALTO JERSETTE JERSETTE** 258 405 307 **300**



Strong protection against aggressive detergents



Precision dexterity in aggressive environments



Fine touch for light chemical protection



Exceptional comfort and precision dexterity in light aggressive environments



Maximum comfort for long-term work in aggressive environments

Internal finish

External finish Non-slip embossed

678910 Length **32 cm**

Thickness 0.60 mm

Internal finish **Flocked**

External finish Non-slip embossed

678910 Length **33 cm**

Thickness 0.70 mm

Internal finish

External finish Non-slip embossed

67891011 Length **32 cm**

Thickness 0.60 mm

Internal finish **Textile support**

External finish Pebbled

6789 Length **31 cm**

Thickness 0.75 mm

Internal finish **Textile support**

External finish 300/308: Smooth 301: Pebbled

300/301: 5 6 7 8 9 10 308: 6 7 8 9 10

Length 30-32 cm Thickness 1.15 mm



*Only for 308, see food compatibility chart, p. 56

EN 388 1110X EN ISO 374-1 TYPE B **KPS**

EN ISO 374-5 8

X









VIRUS















EN 388















√1 x5 x50

CHEMICAL PROTECTION REUSABLE: 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:

 $\underline{\mathbb{A}}$ splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ Irequent contact

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).

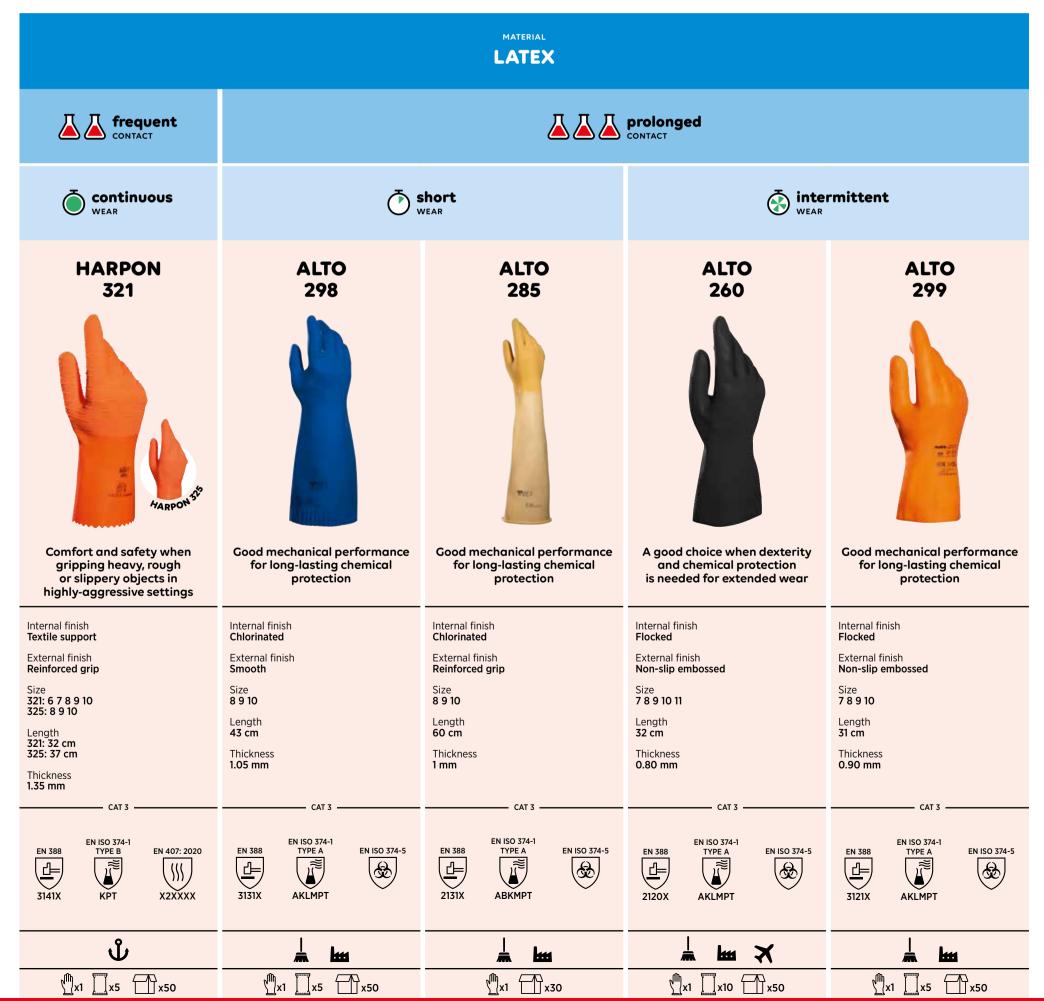
(*) **short** wear

Chlorinated interior finish

intermittent wear Flocked interior finish

continuous wear Fabric-lined interior finish

ultra-comfort wear



CHEMICAL PROTECTION REUSABLE: ULTRANITRIL 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:

 $lap{A}$ splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ Irequent contact

Pure or mixed chemical substances in frequent contact

AAA prolonged contact (or immersion)

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 Flocked interior finish

a continuous wear

Fabric-lined interior finish

• ultra-comfort wear



CHEMICAL PROTECTION REUSABLE: ULTRANITRIL 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:

🚣 splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ A frequent contact

Pure or mixed chemical substances in frequent contact

AAA prolonged contact (or immersion)

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).

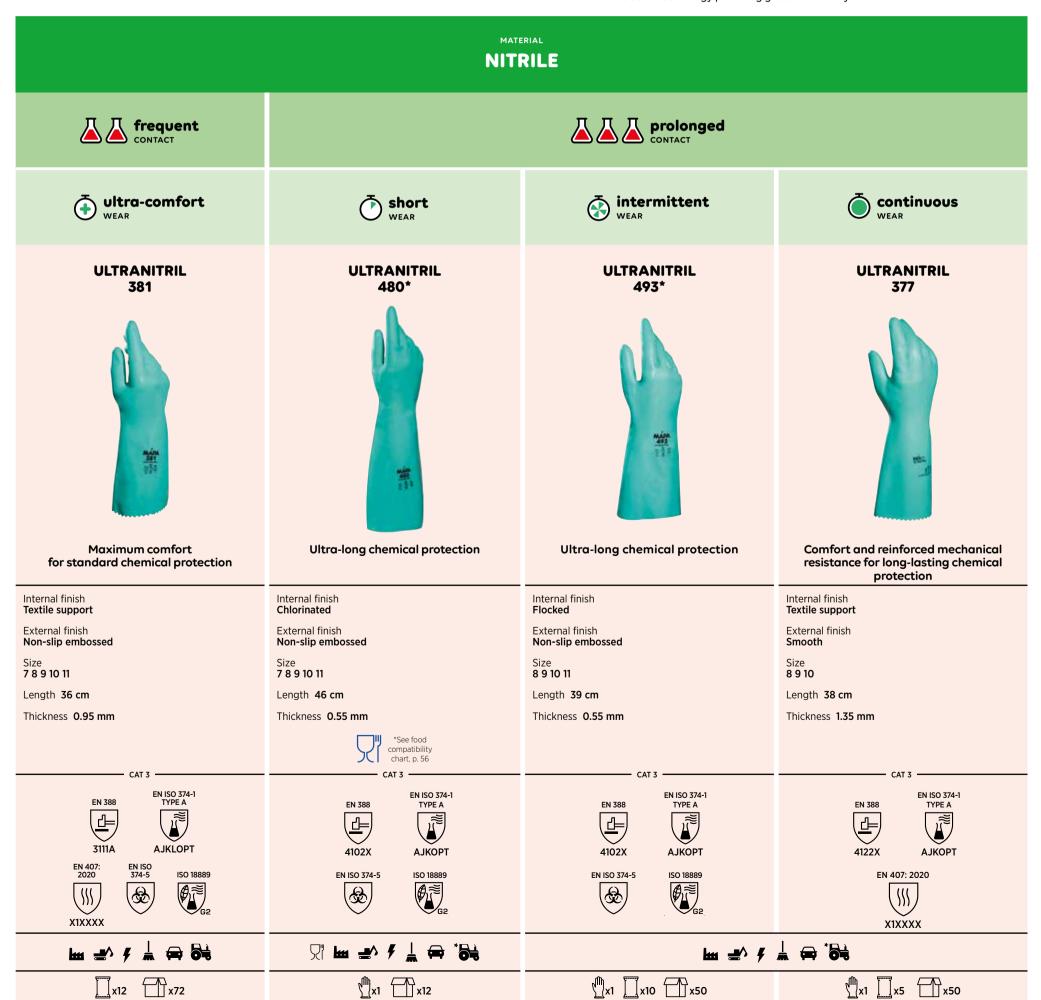
short wear

Chlorinated interior finish

intermittent wear Flocked interior finish

continuous wear Fabric-lined interior finish

• ultra-comfort wear



CHEMICAL PROTECTION REUSABLE: ULTRANEO 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:

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ Irequent contact

Pure or mixed chemical substances in frequent contact

Pure or mixed chemical substances in frequent contact

WEAR TIME

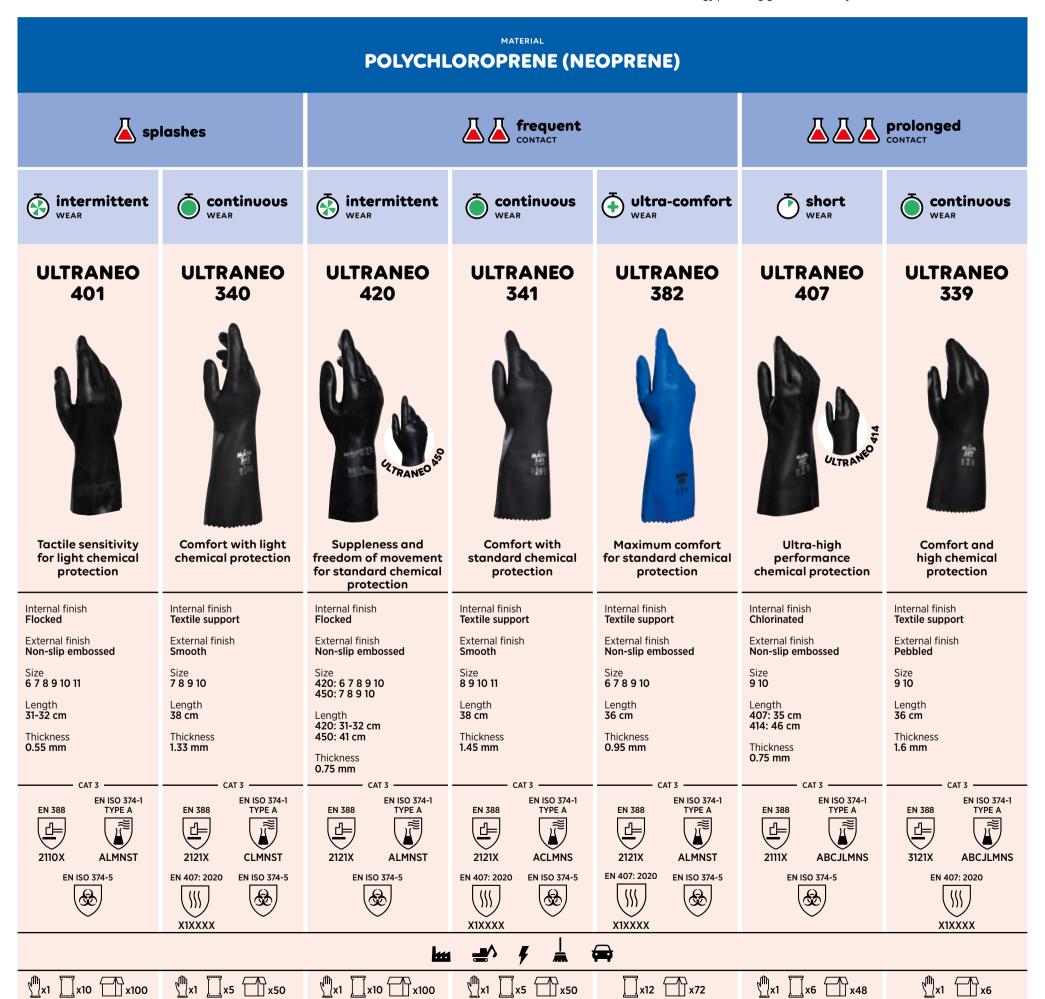
Identifies the comfort level required by the operator the longer the wear time, the more comfortable the glove needs to be (perspiration, flexibility/fatigue).

(*) **short** wear Chlorinated interior finish

intermittent wear

Flocked interior finish continuous wear Fabric-lined interior finish

ultra-comfort wear



CHEMICAL PROTECTION REUSABLE:

BUTOFLEX - FLUOTECH 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:

Chemical substances diluted by immersion or splashes of aggressive substances

A frequent contact

Pure or mixed chemical substances in frequent contact

A prolonged contact (or immersion)

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

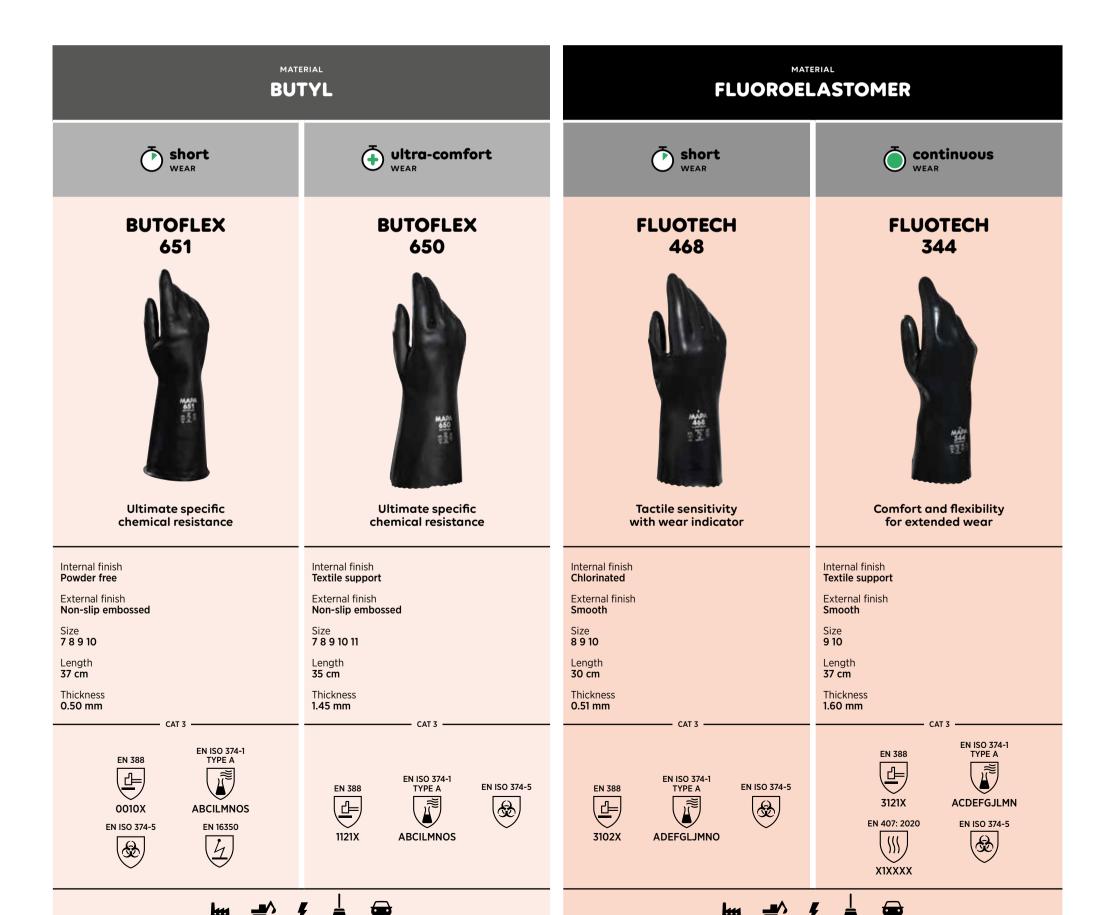
Chlorinated interior finish

intermittent wear

Flocked interior finish

ontinuous wear Fabric-lined interior finish

ultra-comfort wear



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, resistance 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

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 sweat absorption.

CHLORINATED

Easy donning and no powder on hands.

EASY DONNING TREATMENT

Makes it easier to don and doff gloves, without increasing the thickness and without using powder. Reduces the allergy risk of natural latex gloves.

COLOUR

The use of different colours is in response to the unique demands of certain sectors and it enables visual checks by allocating 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.

POWDERED

SOLO

988

PVC/VINYL

SOLO

990

The best value for

precise movements

External finish

Smooth

Size **6 7 8 9**

Length 24 cm

Thickness **0.07 mm**

POLYMER

SOLO BLACK

Suppleness and

optimal resistance

External finish

Smooth

Size **6 7 8 9**

Length **24 cm**

Thickness **0.08 mm**

NITRILE/VINYL



SOLO

Good protection with optimal

flexibility and dexterity

CAT 3

External finish Smooth with pebbled fingertips

POWDER FREE

SOLO PLUS

995

POLYMER

NATURAL LATEX



Optimal flexibility and dexterity

External finish
Smooth with pebbled fingertips External finish Smooth

Size **6 7 8 9**

Length 24 cm

Thickness 0.08 mm

compatibility chart, p. 56 CAT 3

Optimal flexibility and

dexterity for light handling

EN ISO 374-1 TYPE C

chart, p. 56 CAT 3

EN ISO 374-5 (B)

EN ISO 374-5 8

*See food compatibility

chart, p. 56

CAT 3

EN ISO 374-1 TYPE C

Size **6 7 8 9**

Length **30 cm**

Thickness 0.20 mm

EN ISO 374-5

Size **6 7 8 9**

Length 24 cm

Thickness 0.10 mm

EN ISO 374-5

*See food compatibility

chart, p. 56

EN ISO 374-5 (B)



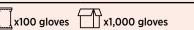
VIRUS





















CHEMICAL PROTECTION DISPOSABLE: SOLO - TRILITES 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, resistance 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 (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 sweat absorption.

CHLORINATED

Easy donning and no powder on hands.

EASY DONNING TREATMENT

Makes it easier to don and doff gloves, without increasing the thickness and without using powder. Reduces the allergy risk of natural latex gloves.

COLOUR

The use of different colours is in response to the unique demands of certain sectors and it enables visual checks by allocating 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

SOLO



Excellent dexterity due to the flexibility and thinness of the material. Supplied in bags or boxes (Solo BOX 967)

SOLO



Ideal splash protection for use in the chemical industry

SOLO



Excellent mechanical resistance, ideal in oily environments

SOLO 987



The perfect protection for light handling in oily environments

Smooth with pebbled fingertips

POLYMER

TRIPOLYMER

CHLORINATED

TRILITES



Tripolymer formula for protection against chemical splashes and splatters

Internal finish

External finish

Size

6789

Length

25 cm

Thickness

0.15 mm

Internal finish

Smooth with pebbled fingertips

6789 Length **25 cm**

Thickness 0.07 mm

EN ISO 374-1 TYPE C

*See food compatibility chart, p. 56

EN ISO 374-5

8

External finish

Internal finish

Smooth with pebbled fingertips

678910 Length

24 cm

Thickness 0.12 mm

EN ISO 374-1 TYPE B

JKT

Internal finish

Smooth with pebbled fingertips

6789

Length 29-30 cm Thickness

0.10 mm

EN ISO 374-1 TYPE B

JKT

*See food compatibility

chart, p. 56

EN ISO 374-5

(B)

VIRUS

Internal finish

External finish

6789

Length

24 cm

Thickness

0.10 mm

*Only 997, see food compatibility chart, p. 56



EN ISO 374-1 TYPE B

JKT

EN ISO 374-5 (B)

VIRUS

EN ISO 374-1 TYPE B **KPT**

EN ISO 374-5 (B)

411

EN ISO 374-5

<u>&</u>



x100 gloves

ISO 18889



















MECHANICAL PROTECTION HANDLING PROTECTION: **ULTRANE RANGE**

The Mapa Professional Handling Protection range meets requirements for hand comfort and protection 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 most suitable for 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 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



Optimal dexterity and sensitivity offering light protection

ULTRANE



Optimal dexterity and sensitivity offering light protection. Suitable for touch screens

ULTRANE



Protection of electronic device from ElectroStatic Discharge (ESD)

ULTRANE 551



Unbeatable for fingertip precision

ULTRANE



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

Seamless knitted textile support

Polymer coating with aqueous

base on palm and fingers

Gauge 13

Coating

Size

Knitted wrist

67891011

Washable x1

Length 22-27 cm

ULTRANE

Second skin effect for optimal comfort and dexterity thanks to its 18 gauge

Seamless knitted textile support

Foam nitrile coating on palm

Gauge 18

Coating

Knitted wrist

Size 6 7 8 9 10 11

Length 23-28 cm

Seamless knitted textile support

Gauge 13

Coating Polyurethane coating on palm and fingers

Knitted wrist

548: 5 6 7 8 9 10 11 549: 5 6 7 8 9 10

Length 20-27 cm

Liner Seamless textile support

Gauge 13

Coating Ventilated back Polyurethane coating on palm

Knitted wrist

567891011

Length 21-27 cm

Liner Seamless textile with conductive fibres

Gauge 18

Coating Polyurethane coating on palm and fingers

Knitted wrist

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

Washable x1

Seamless knitted textile support

Gauge 13

Coating Polyurethane coating on palm and fingers

Knitted wrist

551: 5 6 7 8 9 10 11 550/550VM: 5 6 7 8 9 10

Length 20-27 cm

OEKO-TEX® - CAT 2

OEKO-TEX®



compatibility chart, p. 56

Washable x1

EN 388 4 4X21A

<u>_</u> 3121X

CAT 2

EN 388









CAT 2

EN 388

<u>_</u>

3121X



##

X

























MECHANICAL PROTECTION HANDLING PROTECTION: **ULTRANE RANGE**

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 most suitable for your working environment:

- igotimes igotimes dry and relatively clean environments
- oily and very dirty environments
- **wet** environments

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

Iong service life

👺 **high-performance** service life

PRECISION WORK











Detachable fingers to prevent entanglement. Comfort, suppleness and high dexterity without compromising breathability and durability

ULTRANE 541



Comfort, suppleness and high dexterity without compromising breathability and durability

Seamless knitted textile support

Foam nitrile coating with sandy finish

Gauge 15

on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Washable x1

Length 22-28 cm

ULTRANE 544



Protection of electronic device from ElectroStatic Discharge (ESD)

ULTRANE 553



Unbeatable for fingertip precision in dirty environments

ULTRANE 500*



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

Seamless textile with patent pending specific knitting technology by MAPA PROFESSIONAL

Foam nitrile coating with sandy finish on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11** Length 22-28 cm

Washable x1

OEKO-TEX®

CAT 2

OEKO-TEX®



*Only 541 see food compatibility chart, p. 56

Seamless textile with conductive fibres

Gauge 15

Foam nitrile conductive coating on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Length 22-27 cm Washable x1

OEKO-TEX®

Seamless knitted textile support

Gauge 13

Nitrile coating on palm and fingers

Knitted wrist

Size **5 6 7 8 9 10**

Length 22-26 cm

Seamless knitted textile support

Gauge 13

Coating Double layer coating: Smooth nitrile - Sandy nitrile 500: palm and fingers 525: 3/4 coating 526: complete coating

500/525: 6 7 8 9 10 11 526: 7 8 9 10 11

Length 21-27 cm

Washable x3

OEKO-TEX®

CAT 3 ISO 18889 EN 407: 2020















##







CAT 2



EN 388

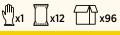












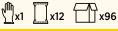




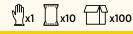






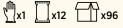












MECHANICAL PROTECTION HANDLING PROTECTION: TITAN RANGE

HEAVY-DUTY WORK

The TITAN range provides the hands with armour for protection when handling heavy objects

- Easy to don and doff 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 most suitable for your working environment:

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



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.

🛚 long service life

high-performance service life





MECHANICAL PROTECTION HANDLING PROTECTION: TITAN - HARPON RANGE

HEAVY-DUTY WORK

The TITAN/HARPON range provides the hands with armour for protection when handling heavy objects

- Easy to don and doff 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 most suitable for your working environment:

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



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



EN 388

2142X

EN 407: 2020

\$\$\$

X2XXXX

∭x12 ∰ x96

EN 407: 2020

XIXXXX

₩ x50

EN 388

3131X

##

EN 388

4132XP

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 cutting machine). 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

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for 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

KRYTECH

SERVICE LIFE

protection for a workstation. Do not hesitate to contact our

technical department for further information.

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



Light cut protection for very precise handling in clean and dirty environments

KRYTECH 579



Light cut protection for very precise handling in reasonably clean environments

KRYTECH 557





Light cut protection with crotch reinforcement for precise handling in reasonably clean environments

KRYTECH 609



Light cut protection with high comfort, suppleness and durability for precision work even in dirty environments. With or without crotch reinforcement

Seamless knitted textile support

Gauge 13 Coating

Polyurethane coating

Cuff Knitted wrist 67891011 Length 22-27 cm

Washable x3

Seamless textile support

Gauge 13

Polyurethane coating on palm and fingers Knitted wrist

6 7 8 9 10 11 Length 22-27 cm

Washable x5

Seamless textile support

Gauge 13

Polyurethane coating on palm and fingers

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

Washable x5

Liner
Seamless textile support in HDPE fibres

Coating

Polyurethane coating on palm and fingers and nitrile crotch reinforcement between thumb and index

Cuff Knitted wrist Size 67891011

557: 22-27 cm 558: 28-32 cm Washable x5

Seamless knitted textile support

Gauge 13

Coating Polyurethane coating on palm and fingers

Knitted wrist

Size **5 6 7 8 9 10 11** Length 21-27 cm Washable x5

OEKO-TEX®

EN 388

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EN 388 <u>。</u> 4X42B

EN 388 ᅀ 4342B ISO 13997: 5N ISO 13997: 5.3N

EN 388 <u>4</u> 4342B ISO 13997: 5.3N

411

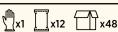
EN 388 ᅀ 4343B ISO 13997: 5.3N

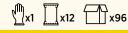
4X42B ISO 13997: 9.5N





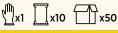
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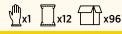


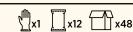




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The Mapa Professional range of cut-protection gloves provides excellent hand comfort and protection specially designed for various types of work involving cut hazards.

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 cutting machine). Furthermore, the EN 388 and ISO 13997 test results give no more

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for 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

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.

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





Light cut protection with second skin effect for optimal comfort and for precise handling for dry and slightly dexterity thanks to its 18 gauge. High vision textile for reinforced safety



KRYTECH

Light cut protection and durability in reasonably clean environments





Cutting, grip and dexterity oily environments



KRYTECH

Comfort, suppleness and high dexterity without compromising on cut protection, breathability and durability

KRYTECH



Moderate cut protection providing maximum comfort. A seamless plated knit glove providing a very good fit, dexterity and flexibility

KRYTECH



Medium cut protection with second skin effect for optimal confort and dexterity thanks to its 18 gauge. High vision textile for reinforced safety

Seamless knitted textile

HDPE fibres

Knitted wrist

Size **6 7 8 9 10 11**

Washable x1

Length **24-29 cm**

Gauge 18

support in composite and

Coating Foam nitrile coating on palm

KRYTECH 643



Comfort, suppleness and high dexterity without compromising cut protection, breathability and durability

Seamless Knitted textile

HDPE fibres Gauge 15

Cuff Knitted wrist

67891011

Washable x1

Length 23-28 cm

Support in composite and

Coating Foam nitrile coating with

sandy finish on palm and

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

Gauge 18

Coating Foam nitrile coating on palm

Knitted wrist

Size **6 7 8 9 10 11** Length **24-29 cm** Washable x1

Seamless textile support in HDPE fibres

Coating Nitrile coating on palm and fingertips **Knitted wrist**

7 8 9 10 11 Length 23-27 cm Thickness 1.4 mm

CAT 2

EN 388

<u>4</u>

4343B

ISO 13997: 6.5N

Seamless textile support in HDPE fibres

Coating Nitrile coating with sandy finish on palm and fingers

Knitted wrist

Size **7 8 9 10 11** Length 23-27 cm Washable x5

OEKO-TEX®

CAT 2

EN 388

<u></u>

4343B

ISO 13997: 5.9N

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

Gauge 15

Coating Foam nitrile coating with sandy finish on palm and fingers

Cuff Knitted wrist

Size 67891011 Length 23-28 cm

Washable x1

EN 388

<u>a</u>

OEKO-TEX®

CAT 2

Seamless knitted textile support in composite and HDPE fibres

Coating

Polyurethane coating on palm and fingers 810: nitrile crotch reinforcement between thumb and index

Knitted wrist

67891011 Length 23-28 cm Washable x3

> **OEKO-TEX**® CAT 2

> > EN 388

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4X43C

ISO 13997: 14.9N

EN 388 <u></u> 4X42C

CAT 2

ISO 13997: 14.5N



EN 407: 2020 \$\$\$ X1XXXX

ISO 13997: 13.5N

CAT 2 -

OEKO-TEX®

ISO 13997: 9.7N



CAT 2

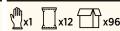
EN 388

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3X42B













EN 407: 2020

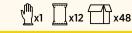
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X1XXXX









___x12 ____x48

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 most suitable for 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

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.

Iong service life

high-performance service life



dry and relatively clean











KRYTECH 586



High cut protection for precise handling in reasonably clean environments

KRYTECH



High cut protection providing maximum comfort. A seamless plated knit glove for very good fit, dexterity and flexibility

KRYTECH 694



High cut protection with second skin effect for optimal comfort and dexterity thanks to its 18 gauge. High vision textile for reinforced safety

Seamless knitted textile support

in composite and HDPE fibres

Foam nitrile coating on palm

Gauge 18

Coating

Cuff

and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Length **24-29 cm**

Washable x1

KRYTECH 622



Very high cut protection, comfortable thanks to

KRYTECH KRYTECH



Comfort, suppleness and high dexterity without compromising on cut protection, breathability and durability. Suitable for touch screens

Foam nitrile coating with sandy finish

Seamless textile support in HDPE fibres

Gauge 13 Coating **Polyurethane on palm**

and fingers Cuff

Knitted wrist

Size **6 7 8 9 10 11**

Length 24-30 cm

Washable x3

EN 388

4X43D

ISO 13997: 18.6N

Seamless knitted textile support in composite and HDPE fibres

Gauge 13

Coating Polyurethane coating on palm and fingers 315: Nitrile crotch reinforcement between thumb and index

Knitted wrist

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

Washable x3

OEKO-TEX®

CAT 2

EN 388

4 4X43D ISO 13997: 20N

<u>₽</u> 4X42D ISO 13997: 18N

EN 388

₹\ 444

excellent adjustment and good compatibility with touch screens

Seamless knitted textile support in composite Seamless knitted textile support in composite and HDPE fibres and HDPE fibres

Gauge 13

Coating Polyurethane coating on palm and fingers

Cuff **Knitted wrist**

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

Washable x5

OEKO-TEX®

CAT 2

EN 388 <u>-</u> 4X43E

ISO 13997: 29.5N



Gauge 15

Coating

Cuff

on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Length 23-28 cm

Washable x1

EN 388 EN 407: 2020 皇 4X43D

X1XXXX ISO 13997: 16N

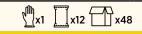


4X43E X1XXXX ISO 13997: 29.5N





OEKO-TEX®



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 most suitable for your working environment:

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



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

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.

Iong service life

high-performance service life











KRYTECH 580



Light cut protection, grip and skin protected for precise handling in slightly oily and dirty environments

KRYTECH 599



Light protection against cutting, grip and skin protected for complex handling operations for in oily environments

Liner Seamless textile support in HDPE fibres

KRYTECH 600



Light protection against cutting, grip and skin protected complex handling operations in very oily environments

Liner Seamless textile support in HDPE fibres

Gauge 13

Cuff Knitted wrist

Size **7 8 9 10**

Length 23-26 cm

Double layer coating:

KRYTECH 585



Moderate cut protection for enhanced safety, comfort and durability with Grip and Proof Technology

Seamless knitted textile support

in composite and HDPE fibres

3/4 Grip & Proof nitrile coating

Double layer coating: Smooth nitrile - Sandy Nitrile

Gauge 15

Coating

Knitted wrist

Length 23-27 cm

Thickness 1.2 mm Washable x3

Size **7 8 9 10 11**

KRYTECH 582



for complex handling operations in oily environments

Seamless textile support in HDPE fibres

Gauge 13

Coating **Double layer coating:** Smooth nitrile - Sandy Nitrile

Knitted wrist

Size **6 7 8 9 10 11**

Length 23-27 cm

EN 407: 2020 ISO 18889 EN 388 生

4342B X1XXXX ISO 13997: 6N

EN 388 4342B

Gauge 13

Coating

Cuff Knitted wrist

Size **7 8 9 10 11**

Length 23-27 cm

Double layer coating:

EN 407: 2020 ISO 18889 X1XXXX

ISO 13997: 6N

4342B

ISO 13997: 6N

凸

EN 407: 2020 ISO 18889 X1XXXX

4X42C ISO 13997: 13N

EN 388

<u>_</u>

High cut protection

Seamless knitted textile support in composite and HDPE fibres Gauge 13 Coating

3/4 nitrile coating Double layer coating: Smooth nitrile - Sandy Nitrile

Knitted wrist Size **6 7 8 9 10 11** Length 23-28 cm Washable x5

EN 388 4

4X43D

ISO 13997: 18N





PRECISION WORK

Cut-protection with improved comfort, dexterity and safety.

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the cuff most suitable for 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 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

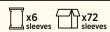
▲ high risk - ISO D

Lead of the American April 1988 very high risk - ISO E

















HEAVY-DUTY WORK

Select your cut-protection gloves according to your specific needs. For heavy-duty 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 most suitable for 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

high risk - ISO D

very high risk - ISO E

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 the nature of the fabric, in a given environment.

Iong service life

high-performance service life





oily and very dirty

high

very high



! low

high

very high

KRYTECH

837

highperformance SERVICE LIFE



KRYTECH

838

Hiah cut

protection for

the food industry.

Ambidextrous



KRYTECH 836



High cut protection and resistance to wear with optimal dexterity and comfort

Coating **Leather covering**

thumb/index finger reinforcements

on palm with

Knitted wrist

Size 7 8 9 10 11

Cuff

Length

27-32 cm

Seamless knitted textile support Seamless textile support in HDPE fibres

in composite and Gauge 10 HDPE fibres

Cuff Knitted wrist

Size 6 7 8 9 10 11

Length **34 cm**

Washable x20

*See food compatibility chart, p. 56

Seamless knitted textile support in composite and HDPE fibres

High cut protection

for handling heavy,

sharp objects in dry

and relatively clean

environments

KRYTECH

832

Coating **Leather covering** on palm with thumb/index finger reinforcements

Knitted wrist Size **8 9 10 11**

Length 24-27 cm

KRYTECH 840



High cut protection for handling heavy or sharp objects in wet environments

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

Coating Latex palm and fingers/ Non-slip embossed

Knitted wrist Size **7 8 9 10** Length

23-26 cm

KRYTECH 380



Seamless textile

cotton fibres

Sandy Nitrile

Safety cuff

Size 8 9 10

Length 21-22 cm

Thickness

2 mm

Gauge 13

support in HDPE and

Double layer coating: Smooth nitrile -

Light protection against cutting, grip and skin protected for heavy handling operations in oily/ dirty environments

protection and combined

Lasting chemical high cut protection

Liner Cotton textile support

Nitrile between internal

and external finish

Coating

Size **8 9 10**

Length

Thickness

2.15 mm

EN 388

4X43D

EN407: 2020

KRYTECH

395

High cut protection,

shock absorption, durability and comfort for heavy handling work

KRYTECH

851

GRIP & PROOF

High cut protection designed to ensure comfort, dexterity and durability for heavy handling work

Seamless knitted textile

support in HDPE and textile support in composite and composite fibres Gauge 13

Seamless knitted

HDPE fibres

Coating Double layer coating: Smooth nitrile -Sandy Nitrile

Safety cuff

Size 7 8 9 10 11

Length 25-28 cm

EN 388

Coating Foam nitrile coating with leather reinforcement

at palm except thumb/ index fingertips / Nitrile

crotch reinforcment

Knitted wrist

Size 8 9 10 11

Length Washable 30 cm х5

EN 388 凸

EN 407: 2020 \$\$\$

Washable

X1XXXX 4X43D ISO 13997: 17.2N

2X4XE ISO 13997: 24.2N

EN 388

EN 388 上 4X43E



ISO 13997: 24.3N



Washable

х5



ISO 13997: 19.8N

EN 407: 2020 X2XXXX

EN 388 上 4344B

EN 407: 2020 , }}}

X1XXXX ISO 13997: 7.6N

(88) X1XXXX ISO 13997: 20.4N



CAT 3 EN ISO 374-1 TYPE B

4 4X43DP

ISO 13997: 17.6N



EN 388

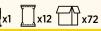
())) X1XXXX

EN 407: 2020

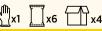
ISO 13997: 29.9N



















444

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

Depending on the temperature of the objects to be handled.



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
- **L** chemical environments

USAGE DURATION

In cold settings, the duration depends on the intrinsic quality of the coating material. In hot settings, the duration 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

wet

prolonged contact

TEMPERATURE

above

150°C

moderately oily







 \emptyset dry

moderately oily

ENVIRONMENTS

high-

performance



CONTACT TIME

80°C

100°C

125°C

prolonged

TEMPDEX

1min50s

1min



ENVIRONMENTS



chemical moderately oily

ENVIRONMENTS



80°C 1min50s 100°C 1min

125°C 38s

CONTACT TIME short-term

chemical

ENVIRONMENTS

100°C **37s** 150°C **16s**

175°C **12s**

TEMPICE 780

long

SERVICE LIFE



Thermal insulation 100% sealed for protecting against intense contact cold

Internal finish Jersey textile support lined with a woollen sleeve

External finish Pebbled PVC coating

Size **9 10**

Length 30 cm

TEMPICE 700



Dexterity and comfort for optimised thermal protection and durability

Internal finish Double seamless knitted textile support

Gauge **10 for internal seamless** Gauge **15 for external seamless** External finish 3/4 smooth nitrile coating with sandy nitrile on the palm

Cuff **Knitted wrist** Size **7 8 9 10**

Length 24-27 cm Washable x5

TEMPDEX 710

CONTACT TIME

80°C **70s**

100°C **30**s

125°C **20s**

short-term



High dexterity and thermal protection

Seamless knitted textile

Nitrile coating and dot

embossing on palm and finger

Internal finish

External finish

Knitted wrist

Size **7 9 11**

Length

support

Gauge 13

720



Dexterity and resistance to cuts for optimised thermal protection

Internal finish Knitted seamless textile support made from aramid fibres

External finish Nitrile coating and dot embossing on palm and finger

Cuff **Knitted wrist**

Length 24-28 cm

TEMPCOOK 476



Hygienic with high-temperature thermal protection 100% liquid-proof

Internal finish Knitted thermal protection

External finish Non-slip embossed Nitrile coating

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

Length



TEMPTEC



Effective thermal insulation and multi-purpose chemical resistance

Knitted thermal protection

Internal finish

External finish Polychloroprene (neoprene) coating

Size **8 9 10**

Length

EN 388 3221X

TYPE B KPT EN ISO 374-5 (B)

EN ISO 374-1















X2XXXX



EN 388

些

4443D



EN511



EN 407: 2020



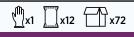






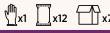
EN511













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 in great detail the food contact tests to be performed for each type of food. Therefore, a glove may be approved for the handling of certain foodstuffs but 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 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

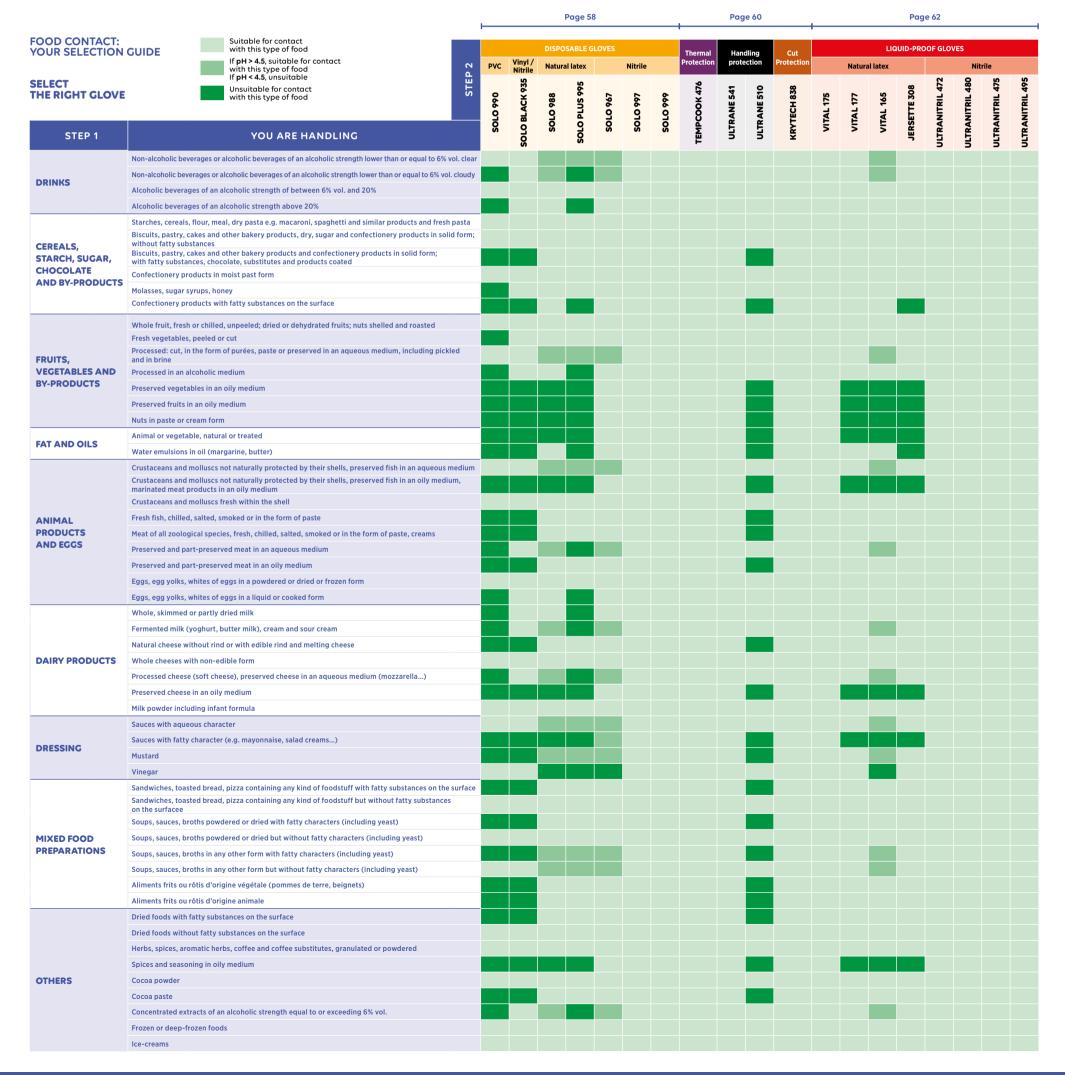
mapa-pro.com

SELECT THE RIGHT GLOVE FOR YOU DEPENDING ON 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, liquid-proof) and the performance required based on your use.



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DISPOSABLE GLOVES MATERIAL MATERIAL MATERIAL MATERIAL VINYL/NITRILE **PVC / VINYL NATURAL LATEX** NITRILE FINISH FINISH FINISH **FINISH POWDERED POWDER FREE POWDER FREE CHLORINATED SOLO SOLO BLACK SOLO SOLO PLUS SOLO SOLO SOLO** 990 935 988 995 967 997 **Good mechanical** The ideal protection Good mechanical The good value for The perfect protection **Great value Good mechanical** for light food handling precise movements resistance for light food handling for light handling resistance, resistance, fore arm fingers sensitivity in food handling protection, fingers and fingers sensitivity of oily food sensitivity for Supplied in bags for handling or boxes of oily foods handling of oily foods External finish External finish External finish External finish Internal finish Internal finish External finish Smooth with pebbled Smooth with pebbled Chlorinated Chlorinated fingertips fingertips Size **6 7 8 9** External finish External finish Size Size 6789 6789 Size **6 7 8 9** Smooth with pebbled Smooth with pebbled 6789 fingertips fingertips Length **24 cm** Length Length Size **6 7 8 9** Size **6 7 8 9** 24 cm 24 cm Length Length 25 cm 24 cm Thickness Thickness Thickness Length 29-30 cm 0.07 mm 0.08 mm 0.08 mm Thickness Thickness Length 0.10 mm 0.07 mm 24 cm Thickness Thickness 0.10 mm 0.10 mm CAT 3 CAT 3 CAT 3 EN ISO 374-1 TYPE C EN ISO 374-1 TYPE B EN ISO 374-1 TYPE B EN ISO 374-5 **B** 8 8 (B) **B** 8 8 VIRUS VIRUS VIRUS JKT **JKT**

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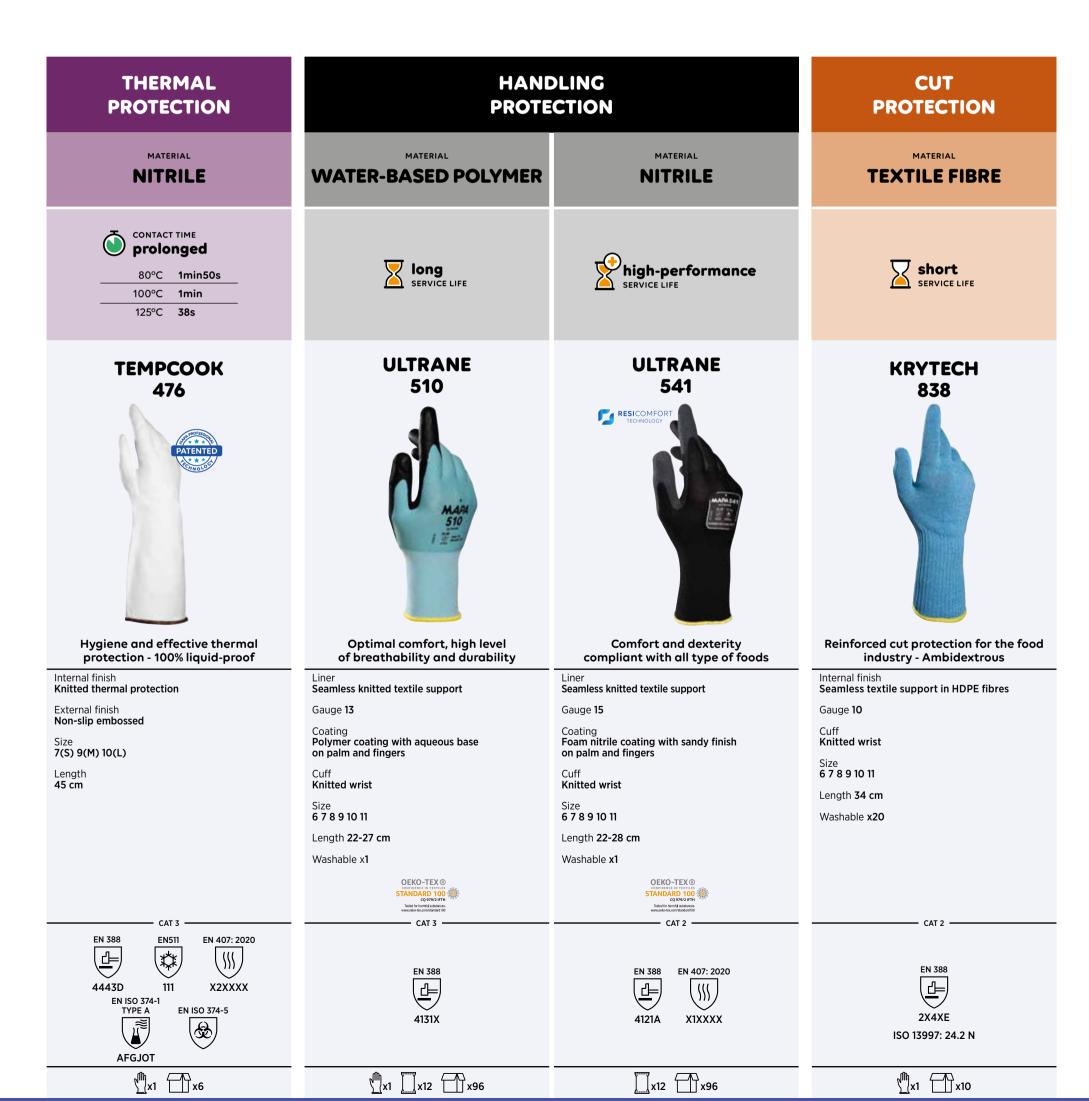
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WEAR TIME

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)



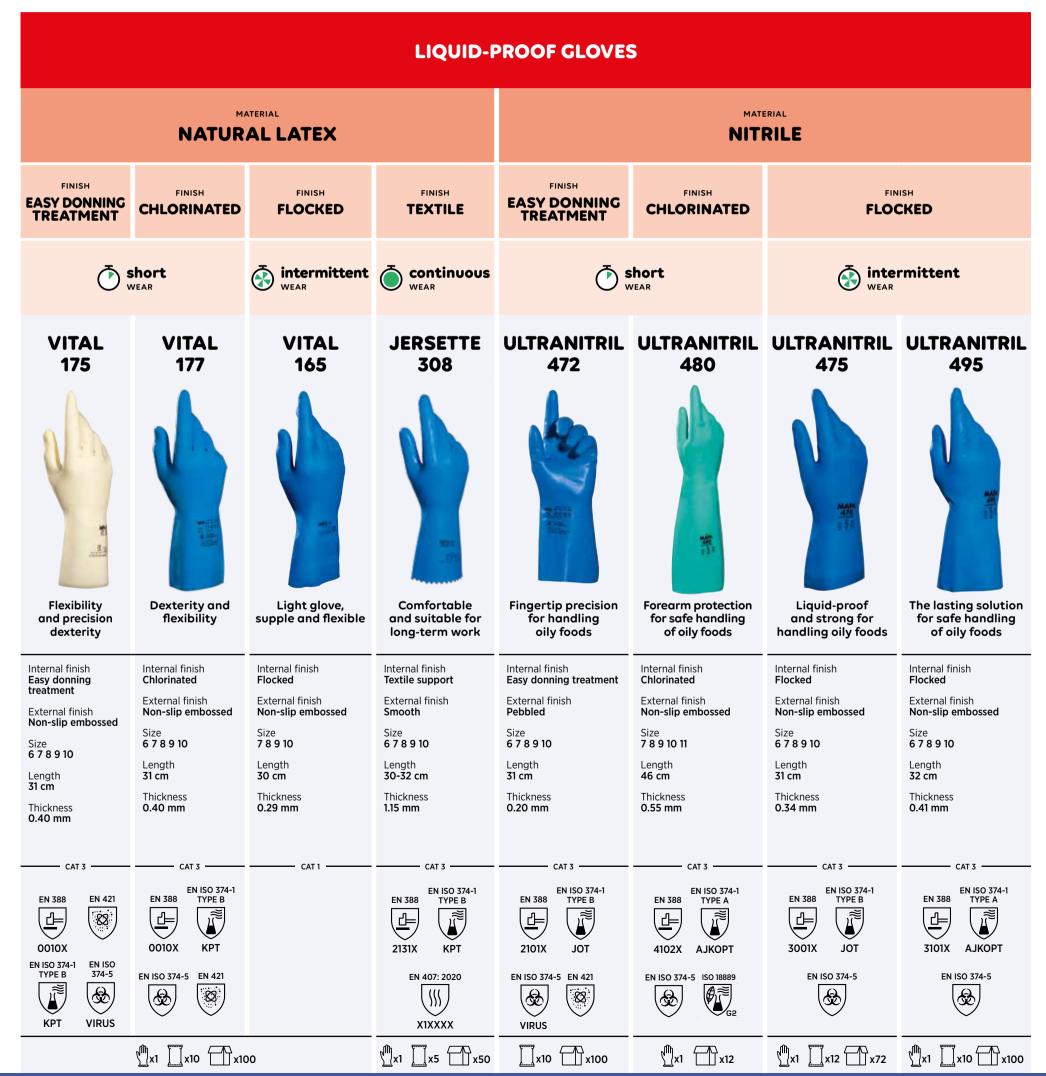
MATERIAL

Materials guide for disposable and liquid-proof gloves.

Natural latex

Flexibility, comfort and value for money.

Strength, durability, handling of oily foods with no risk of allergies.



CRITICAL ENVIRONMENT PROTECTION

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

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



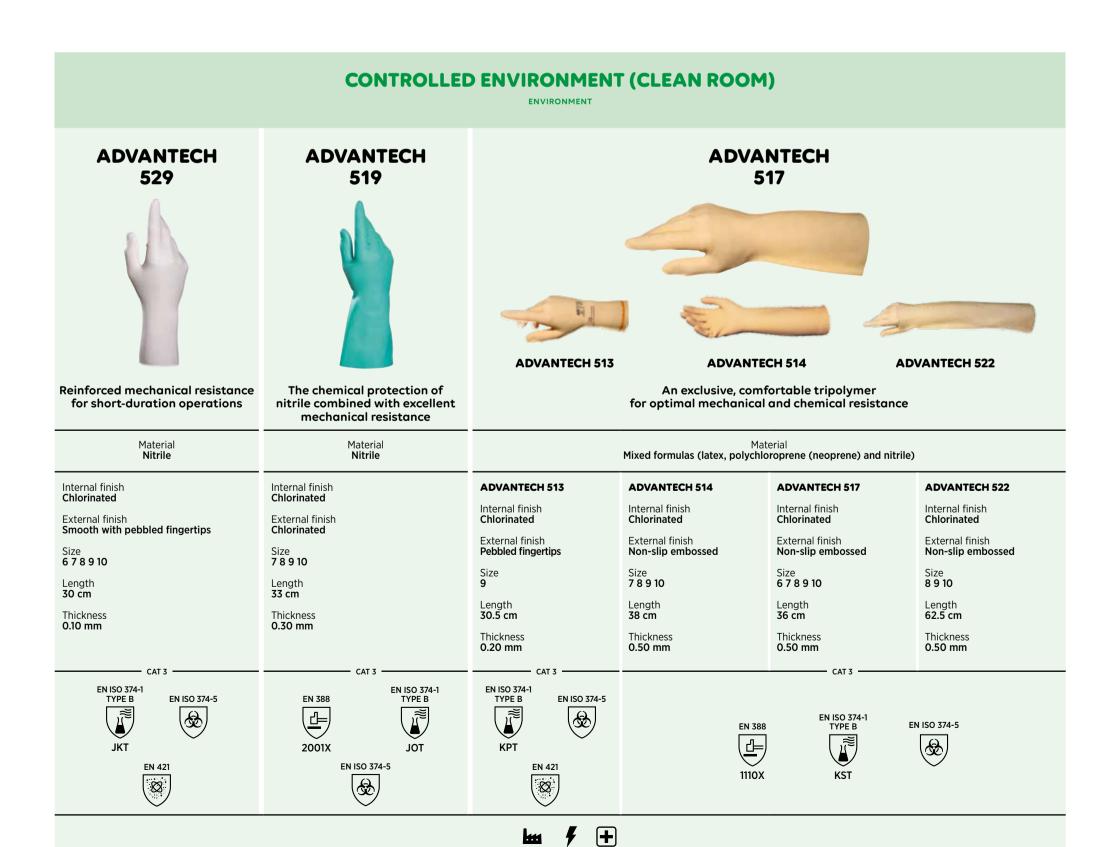
QUALITY GUARANTEES AT EVERY STAGE OF PRODUCTION

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



∰x200

x50

x1 x12 x72

√1 x1 x6 x48

Packaging information

References	Pair/Bag	Pairs/ Masterbag	Pairs/ Carton	Page N ^r
115	1	10	100	17
117	1	10	100	17
124	1	10	100	17
165	1	10	100	17, 63
175	1	10	100	17, 63
177	1	10	100	17, 63
180	1	10	100	17
181	1	10	100	17
185	1	10	100	17
186	1	10	100	17
210	1	10	100	17
258	1	10	100	19
260	1	10	50	21
285	1	•	30	21
298	1	5	50	21
299	1	5	50	21
300	1	5	50	19
301	1	5	50	19
307	1	5	50	19
308	1	5	50	19, 63
319	1	5	50	41
321	1	5	50	21
325	1	5	50	21
328	1	12	96	41
330	1	5	50	41
332	1	-	6	55
339	1	-	6	27
340	1	5	50	27
341	1	5	50	27
344	1	-	1	29
351		12	72	17
369	-	5	50	17
375	1	5	50	39
377	1	5	50	25
380	1	6	48	53
381		12	72	25

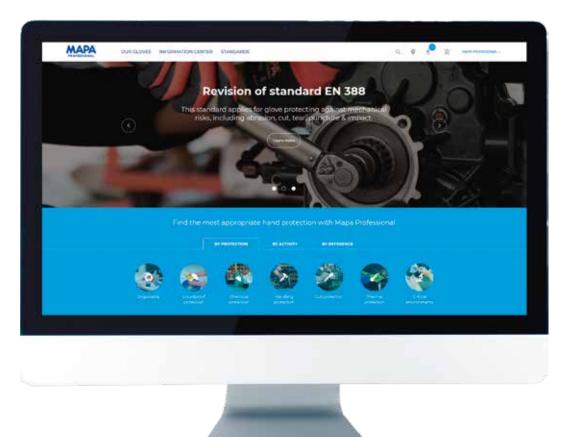
References	Pair/Bag	Pairs/ Masterbag	Pairs/ Carton	Page N ^r
532		6 sleeve	72 sleeves	51
532 VM	1 sleeve	•	72 sleeves	51
538	•	6 sleeve	48 sleeves	51
538 VM	1 sleeve	-	48 sleeves	51
540	1		100	17
541		12	96	37, 61
544	1	12	96	37
548	1	12	96	35
548 VM	1	12	96	35
549	1	12	96	35
549 VM	1	12	96	35
550	-	10	100	35
550 VM	1	10	100	35
551	1	10	100	35
553	1	10	100	37
553 VM	1	10	100	37
557	1	10	50	43
558	1	12	96	43
563	1	12	96	45
578	1	12	48	43
579	1	12	96	43
579 VM	1	6	96	43
580	1	12	48	49
582	1	12	48	49
582 VM	1	6	48	49
584	1	12	96	43
585	1	12	48	49
586	1	12	48	47
588	1	12	48	45
599	1	12	48	49
600	1	12	48	49
602	1 sleeve	6 sleeve	72 sleeves	51
603	1 sleeve	6 sleeve	72 sleeves	51
609	1	12	48	43
610	1	12	48	45
615	1	12	48	47

382	-	12	72	27
383	-	10	100	39
388	-	10	100	39
395	1		12	53
397	1	10	100	39
401	1	10	100	27
405	1	10	100	19
407	1	6	48	27
410	-	12	48	23
414	1	6	12	27
415	1	10	100	19
420	1	10	100	27
450	1	10	100	27
454	1	•	50	23
468	1	-	1	29
472	•	10	100	23, 63
475	1	12	72	23, 63
476	1	-	6	55, 61
480	1	-	12	25, 63
485	•	12	72	23
491	•	10	100	23
492	1	10	100	23
493	1	10	50	25
495	1	10	100	23, 63
500	1	12	96	37
500 VM	1	12	96	37
510	1	12	96	35, 61
513	•	50	200	65
514	1	12	72	65
517	1	12	72	65
519	1	12	72	65
520	1	10	100	17
522	1	6	48	65
524	1	12	96	35
525	1	12	96	37
525 VM	1	6	96	37
526	1	12	96	37
527	1	12	96	37
529	-	100	1,000	65

622	1	12	48	47
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643	1	12	48	45
644	1	12 48		47
645	1	12	48	47
648	1	12	96	35
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651	1	-	25	29
681	1	12	48	35
692	1	12	48	45
693	1	12	48	45
694	1	12	48	47
700	1	12	72	55
710	1	10	50	55
720	1	12	72	55
780	1	- 48		55
809	1	12 48		43
810	1	12 48		45
815	1	12	48	47
832	1	12	72	53
833	-	10	100	39
836	1	12	48	53
837	-	12	48	53
838	1	-	10	53, 61
840	1	12	72	53
850	1	12	48	41
851	1	12	48	53
935	•	100 gloves	100 gloves 1,000 gloves	
967	-	100 gloves	1,000 gloves	33, 59
977	-	100 gloves	1,000 gloves	33
987	-	100 gloves	1,000 gloves	33
988	•	100 gloves	1,000 gloves	31, 59
990	•	100 gloves	1,000 gloves	31, 59
994	•	100 gloves	1,000 gloves	33
995	-	100 gloves	1,000 gloves	31, 59
997	-	100 gloves	1,000 gloves	33, 59
998	-	100 gloves	1,000 gloves	31
999	-	100 gloves	1,000 gloves	33, 59

For more information

www.mapa-pro.com



▶ Contact forms

Get in touch easily with our commercial and technical teams

- ► 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.



MAPA PROFESSIONAL

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