

CATALOGUE **2021-2022 PROTECTIVE GLOVES**



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



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.

PVC	NATURAL LATEX						
		👗 splashes					
	T short	💮 intermittent					

PAGE 60

protection

Critical environment

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

AERONAUTICS Work with composite materials (resins)



TRANSPORT

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



HEALTH

Pharmaceutical preparation Medical manufacturing Research Hospitals and clinics



FOOD AND DRINK INDUSTRY Food handling and preparations



CONSTRUCTION INDUSTRY Handling construction materials Glazing

MARITIME Cultivation of fishing products

AGRICULTURE Handling of diluted and concentrated pesticides Re-entry tasks

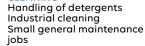
PAGE 52

range

Food expert

ENERGY Nuclear, wind turbine. petrochemical industries

CLEANING



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 & 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.

CATEGORIES OF RISK AND CORRESPONDING CERTIFICATION PROCEDURE

Minimal risks only. The manufacturer is responsible for the conformity of its products.

CAT 1

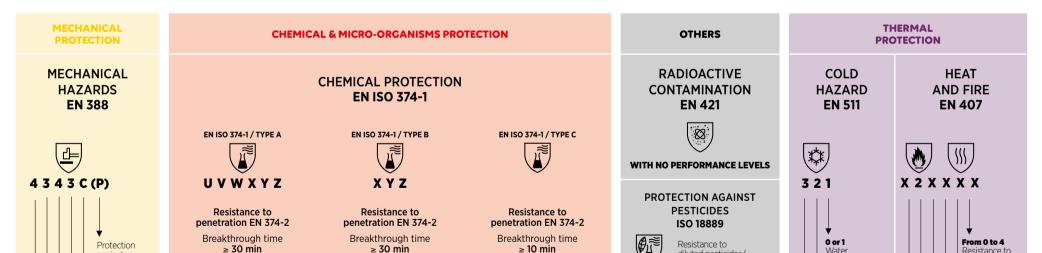
— CAT 2 ——

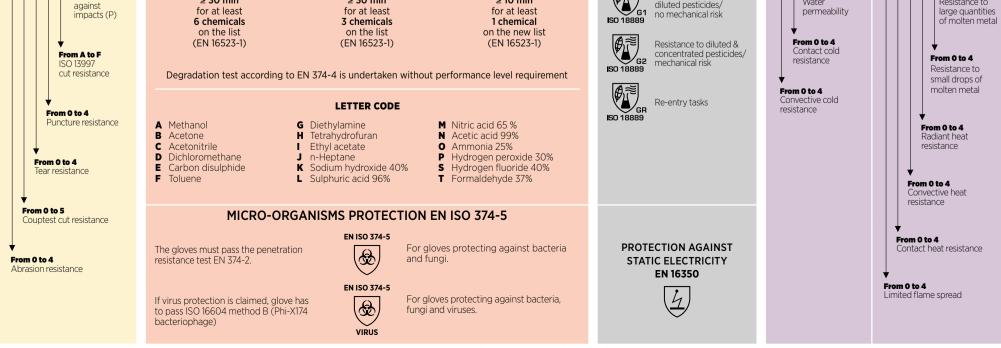
Risks other than CAT 1 & CAT 3. CE-certificate of conformity obtained from a Notified Body.

Risks causing irreversible damage to health. CE-certificate of conformity and conformity of the production from Notified Bodies.

How to read the standards

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





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

Standards information

PROTECTION AGAINST PESTICIDES

ISO 18889: 2019 STANDARD

Protective gloves for pesticide operators and re-entry workers

BACKGROUND

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

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

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

STATIC ELECTRICITY

Which standard deals with electrostatic properties?

GLOVES STANDA	RDS REQUIREMENT	TEST METHOD	PICTOGRAM			
ATEXEN 16350environmentVertical resistance: <108 Ω at 25% relative humidity		EN 1149-2	Introduced in EN ISO 21420: 2020 EN 16350			
	*The tests must be performed on 5 samples which must all pass the limit of vertical resistance					
Protection of electronic devices from ElectroStatic Discharge (ESD)	No standard	No test method	No pictogram			

GLOVE CLASSIFICATION

Protective gloves are classified into 2 categories:

WHOLE HAND PR	OTECTION GLOVE	PARTIAL HAND PROTECTION GLOVE (fingertips and palm-side)
Relatively low potential risk	Higher potential risk	GR gloves
G1 gloves G1 ISO 18889	G2 gloves G2 G2 G2 G2 G2 G2 G2 S0 18889	GR ISO 18889
Handling diluted pesticides. No mechanical risk.	Handling diluted or concentrated pesticides. Minimum mechanical resistance requirement.	Re-entry worker who is in contact with dry and partially dry pesticide residues that remain on the plant after pesticide application Mechanical properties that are required for several re-entry tasks. Breathable material in the back of the hand provides comfort.
Disposable gloves	Chemical gloves	▼ High dexterity mechanical gloves

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.

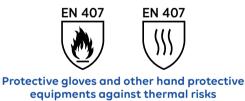
As there is no standard for ESD gloves, at MAPA PROFESSIONAL we decided to refer to the EN 16350 (ATEX gloves). This standard is very strict, so a glove complying to EN 16350 will be suitable for handling electronic devices.

Standards changes

EN 407

The **EN 407** standard was revised in 2020.

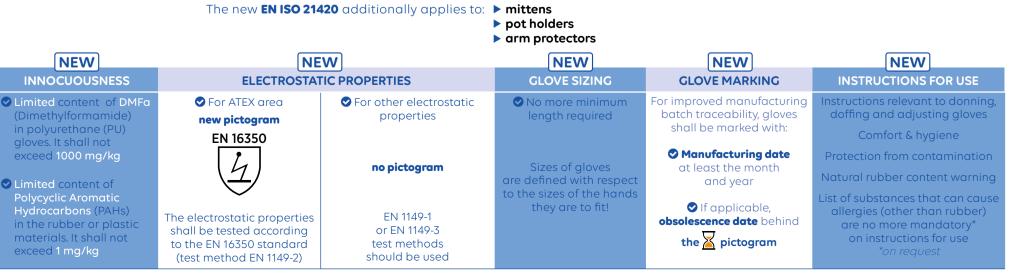
The main reason for the revision is the **inclusion of thermal protection articles for private use** (oven gloves, potholders, etc.) in the new PPE Regulation (EU) 2016/425. The performance levels remain **unchanged**!



			NEW
BEFORE	NOW	BEFORE	NOW
GLOVES RESIST	TANT TO FLAME		
EN 407	EN 407	The performance levels were based on the average value of test results	The performance levels are based on the lowest value of test results
321XXX	321XXX NO CHANGE	No mechanical resistance requirement	Introduction of a minimum mechanical resistance: minimum level 1 (10N) for tear resistance - EN 388
GLOVES NOT RES	ISTANT TO FLAME		
EN 407	NEW EN 407	Minimum length required by EN 420: 2004	 Higher minimum requirement of length for gloves that offer protection from metal projection
x2XXXX	x2XXXX	Issue with flame test with leather gloves	Test is now reliable

ENISO 21420 The **EN 420** standard was revised in 2020 becoming standard **EN ISO 21420**. This undertail standard pourly specifies the general requirements and test me

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.



UNDERSTANDING THE SPECIFIC FEATURES OF A GLOVE FOR AN INFORMED CHOICE

Different cuff edging Depending on your use



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

risk of entanglement.



Knitted cuff Provides a good fit for the hand and protects the wrist



Straight cuff Improved hand ventilation



Rolled cuff Reduces the risk of tearing when doffing gloves



Scalloped cut Longer service life for the glove

Glove length

Shapes, sizes

and thicknesses

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

Glove size

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

Glove thickness

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



or ambidextrous gloves



Anatomical

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



Ambidextrous gloves

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



Various external finishes to suit your needs



Smooth No marking of objects being handled

Non-slip embossed Excellent grip in oily environments

Pebbled Good grip and minimal glove fouling

Reinforced grip Excellent grip in wet environment

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

Good sweat absorption.

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

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. $\bar{\textcircled{ \ o }}$

The different textile types:

Cotton Comfort, thermal insulation and sweat absorption.

Dot embossing Improved thermal insulation Fleeced feel comparable with that of a fine carpet.

Optimised dexterity (thin, seamless).

Para-aramid Cut and heat resistance.

High density polyethylene Cut-resistance and optimised dexterity.





Excellent grip in oily environments combined with liquid-proof protection



Comfort and allows hand to breathe without compromising durability

UNDERSTANDING THE SPECIFIC FEATURES OF A GLOVE FOR AN INFORMED CHOICE



This technology is used in our ULTRANE and KRYTECH ranges.

NEW PRODUCTS

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



CUT PROTECTION



CHEMICAL PROTECTION

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

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

In order to meet the wide variety of aggressive situations that exist, Mapa Professional offers a wide range of protective gloves designed using polymers, which behave differently and provide different protection according to the situation. The results of chemical testing and the different chemical classification indices must not be seen as the only factors when selecting a glove. Actual usage conditions, the contact time with a given chemical, the concentration, the temperature, the usage frequency of a glove and the care conditions can affect glove performance. All of these factors should be taken into account when choosing the right glove.

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

THE MAPA GUIDE: 2 PERFORMANCE INDICATORS

To characterise the performance of the elastomers and plastics used to manufacture safety gloves, tests are carried out to determine the behaviour of these materials when confronted with the various families of chemical products.

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

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.

1. PERMEATION TIMES

2. DEGRADATION INDEX

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

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

1 Identify which family of chemical products the substance you are handling belongs to			2 Determin material	ne the most appropriat I for your specific applic	e protective v	accordin	rour gloves g to the level ction you require.		
YOU ARE HANDLING CAS EN 374		PVC	NATURAL LATEX	NITRILE	POLY- CHLOROPRENE	BUTYL	FLUORO- ELASTOMER		
				Common	polymers*		Specific	polymers**	
				RECOMMENDATION B MAPA PROFESSIONAL	• •	Light protection ●●	Strong protection	● ● protection	
ALCOHOLS (methanol 100%)	67-56-1	А		•	•	••	•••	••	
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	Е			•			•••	
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	к	•••	•••	•••	•••	•••	•••	
OXIDISING ACID (sulphuric acid 96%)	7664-93-9	L	•	•		••	•••	•••	
DXIDISING ACID (nitric acid 65%)	7697-37-2	м	•	•••		•••	•••	•••	
ORGANIC ACID (acetic acid 99%)	64-19-7	Ν	•	•		•••	•••	••	
ORGANIC BASE (ammonia 25%)	1336-21-6	0	•	•	••		•••	••	
PEROXIDE (hydrogen peroxide 30%)	7722-84-1	Ρ	•••	•••	•••	•••	•••	•••	
HYDROFLUORIC ACID (hydrogen fluoride 40%)	7664-39-3	S		•••		•••	•••	••	
ALDEHYDE (formaldehyde 37%)	50-00-0	т	•••	•••	•••	•••	•••	•••	
The most frequently used materials for manufacturing chemical protection gloves. Protection targeted against certain aggressive chemical product families, these are more stringent than for standard materials.	ADVANT	AGES	Value for money Mechanical strength	Excellent flexibility Good puncture and tearing resistance Suitable for cold environments	Good puncture and abrasion resistance No risk of protein- related allergies	Good flexibility Good thermal resistance	Excellent chemical resistance Flexible and elastic	High chemical resistance	
	RESTRICT	IONS	Not suitable for handling hot parts	Risk of allergies caused by the proteins in the natural latex	Not recommended for cold environments	Poor mechanical properties	Poor mechanical properties		

CHEMICAL PROTECTION 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

🛓 🛓 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

continuous wear Fabric-lined interior finish





34 cm	30 cm	Size		grip	embossed	embossed	texture	32.5 cm	embossed	
	Thickness 1.35 mm	6 7 8 9 10 Length	Size 6 7 8 9	Size 8 9 10	Size 6 7 8 9	Size 6 7 8 9 10	Size 6 7 8 9 10	Thickness 0.50 mm	Size 6 7 8 9 10	Size 7 8 9
		31 cm Thickness 0.40 mm	Length 33.5 cm	Length 31 cm		Length 30.5 cm			Length 30 cm	Length 31 cm
		0.40 mm	Thick 0.40	mess mm		Thickness 0.35 mm			Thick 0.4C	kness) mm
CAT 3	CAT 3	CAT 3	сат	r 3 ———		CAT 3		CAT 3	CA	тз —
EN 388:2016	EN 388:2016	EN 388:2016 EN 421	EN 421 E	IN ISO 374-5:2016	EN 421	EN ISO 374-5:2016	EN ISO 374-5:2016	EN 421 EN ISO 374-5:2016		N ISO 374-5:2016
EN ISO 374-1:2016 TYPE B	4121X EN ISO EN ISO 374-1:2016 574-5:2016 TYPE A	0010X EN ISO 374-1:2016 EN ISO TYPE B 374-5: 2016	EN 388:2016	EN ISO 374-1:2016 TYPE B			VIRUS	EN ISO 374-1:2016 EN 388:2016 TYPE B	111OX EN ISO 37 TYP	EB
КРТ	KLMNPT	KPT VIRUS* ('VITAL 175)	2010X (VITAL 520) 0010X (VITAL 540)	KMP (VITAL 520) KPT (VITAL 540)	(\sim	010X	1110X KPS	KP	PT PT
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CHEMICAL PROTECTION REUSABLE: 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:

👗 splashes

Chemical substances diluted by immersion or splashes of aggressive substances

🛓 🛓 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).

O short wear Chlorinated interior finish

intermittent wear Flocked interior finish

continuous wear Fabric-lined interior finish



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:

👗 splashes

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

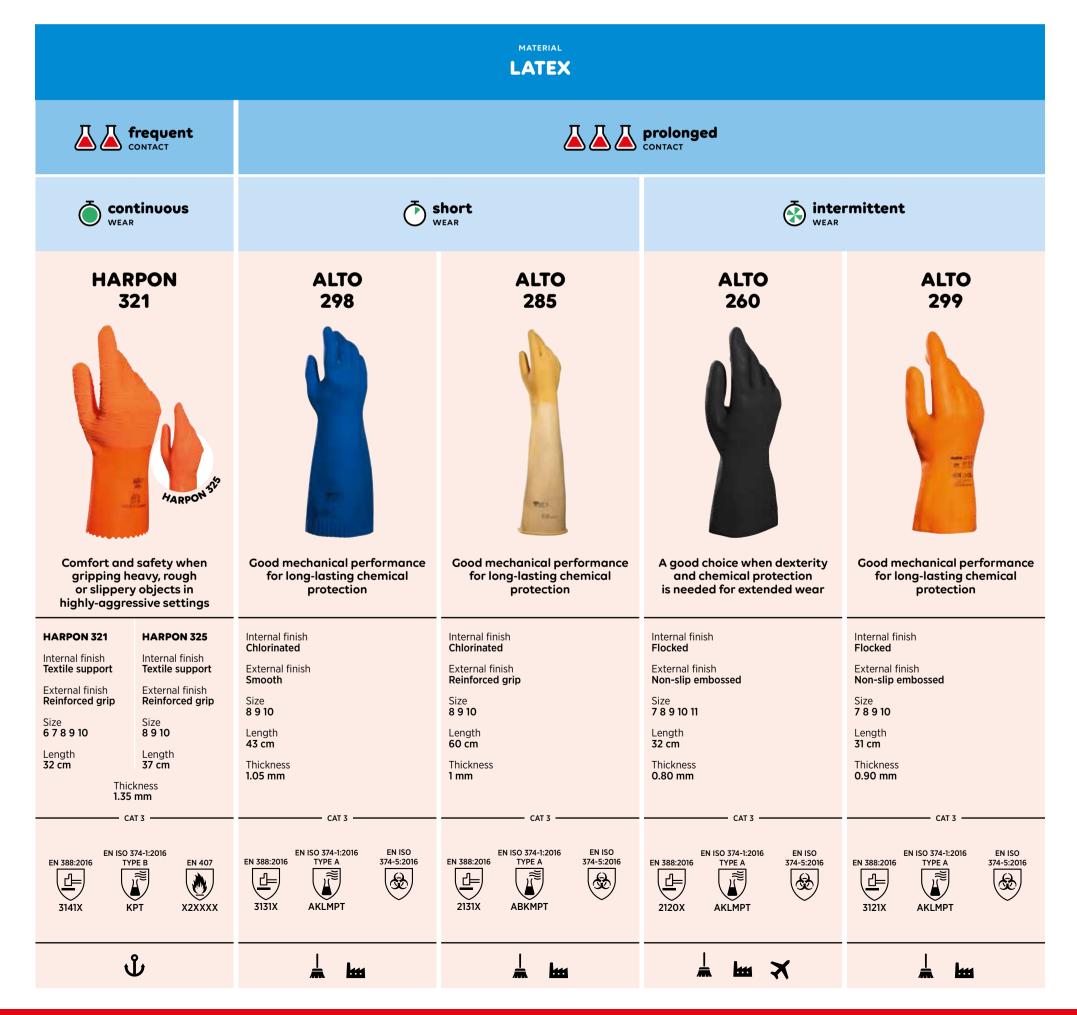
WEAR TIME

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

continuous wear Fabric-lined interior finish



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

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MARKA SALAR

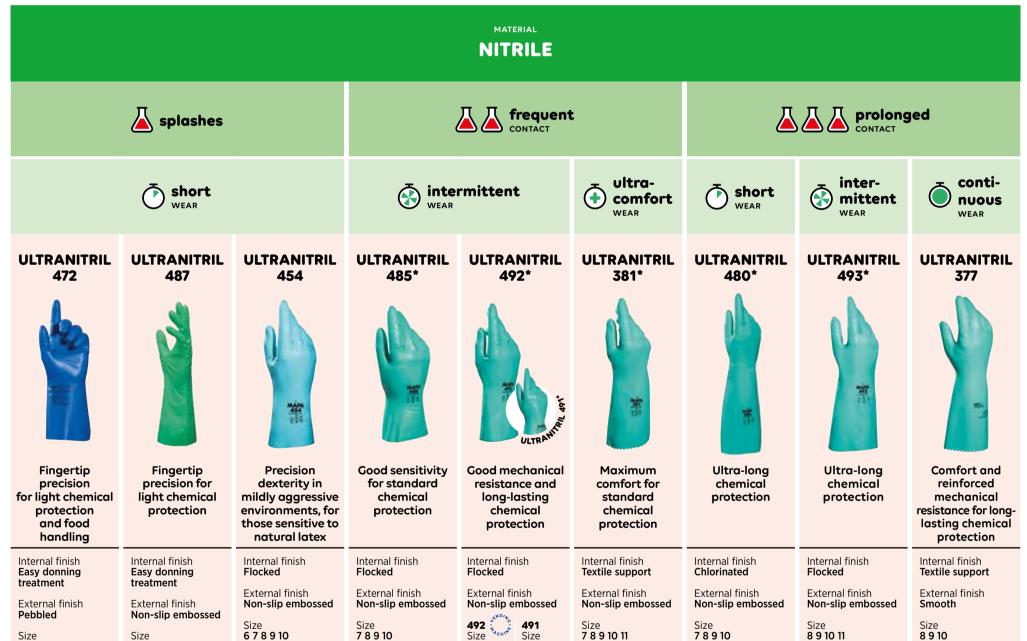
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	EN ISO 374-5: 2016 EN 421	EN ISO 374-5: 2016	EN ISO 374-5: 2016	EN ISO 374-5: 2016 18889 G2	EN ISO 374-5: 2016 ISO 18889 VIRUS G2	EN ISO EN 407 374-5: 2016 ISO 18889 X1XXXX	EN ISO 374-5: 2016 ISO 18889	EN ISO 374-5: 2016 ISO 18889	EN 407
	EN 388:2016 EN 388:2016 2101X JOT	EN 388:2016 EN 388:2016 2101X EN 300 TYPE B TYPE B JOT	EN 388:2016 2000X EN 388:2016 EN 388:2016 TYPE B TYPE B TYPE B KPT	EN 388:2016 EN 388:2016 TYPE B 3101X JKOPT	EN 388:2016 EN 388:2016 374-1:2016 TYPE A JIO1X AJKOPT	EN 388:2016 3111A EN SO 374-1:2016 TYPE A JKLOPT	EN 388:2016 EN 388:2016 4102X EN ISO 374-1:2016 TYPE A AJKOPT	EN 388:2016 EN 388:2016 TYPE A 4102X AJKOPT	EN ISO 374-1:2016 TYPE A 4122X AJKOPT
_	Length 31 cm Thickness 0.20 mm CAT 3	Length 32 cm Thickness 0.28 mm	31 cm Thickness 0.35 mm	31 cm Thickness 0.34 mm	Length 32 cm Thickness 0.38 mm CAT 3	36 cm Thickness 0.95 mm	46 cm Thickness 0.55 mm	39 cm Thickness 0.55 mm	38 cm Thickness 1.35 mm
	6 7 8 9 10	7 8 9 10	Length	Length	6 7 8 9 6 7 8 9 10 11 10	Length	Length	Length	Length

CHEMICAL PROTECTION REUSABLE: ULTRANEO RANGE

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RISK

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Chemical substances diluted by immersion or splashes of aggressive substances

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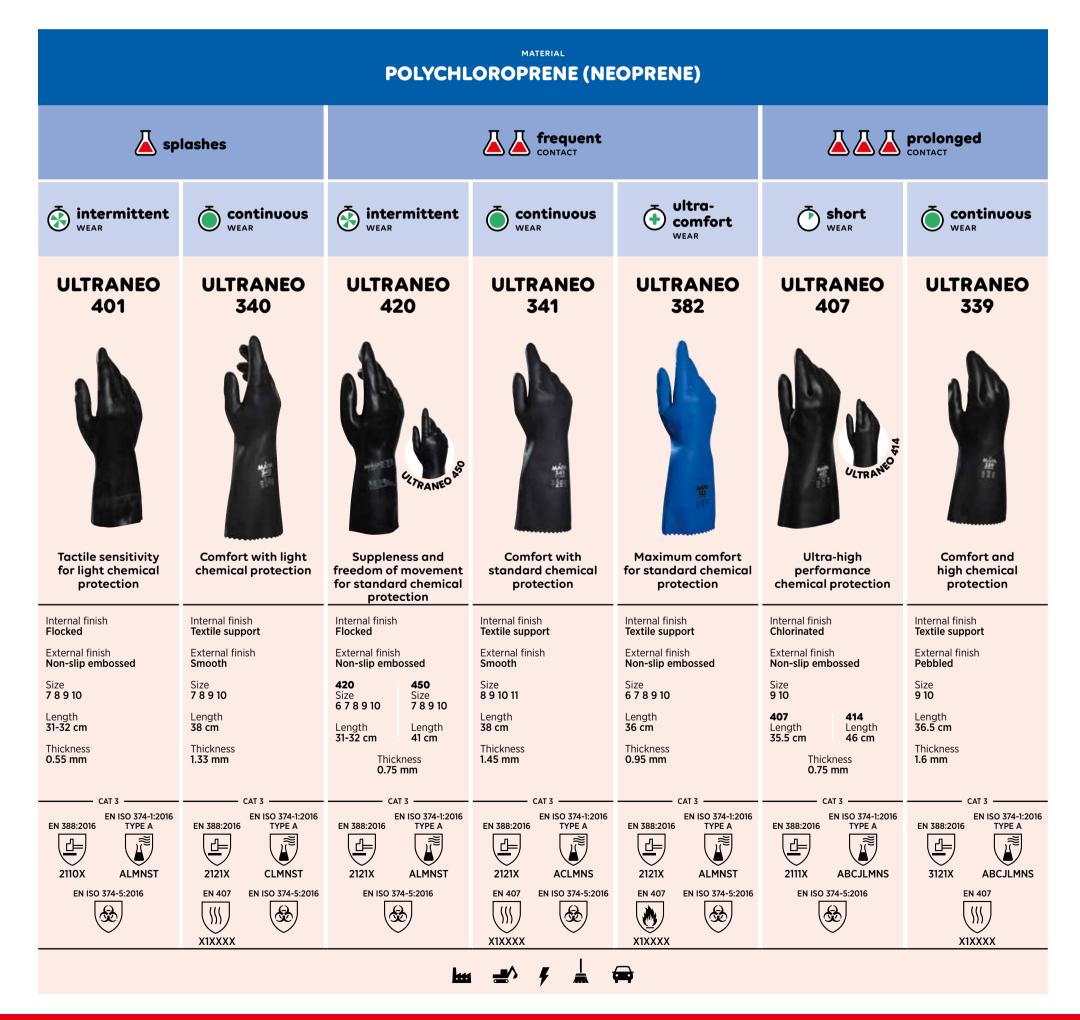
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O short wear Chlorinated interior finish

intermittent wear Flocked interior finish

continuous wear Fabric-lined interior finish







CHEMICAL PROTECTION REUSABLE: BUTOFLEX - FLUOTECH RANGE



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👗 splashes

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 \underline{A} , **prolonged** contact (or immersion)

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🕐 short wear

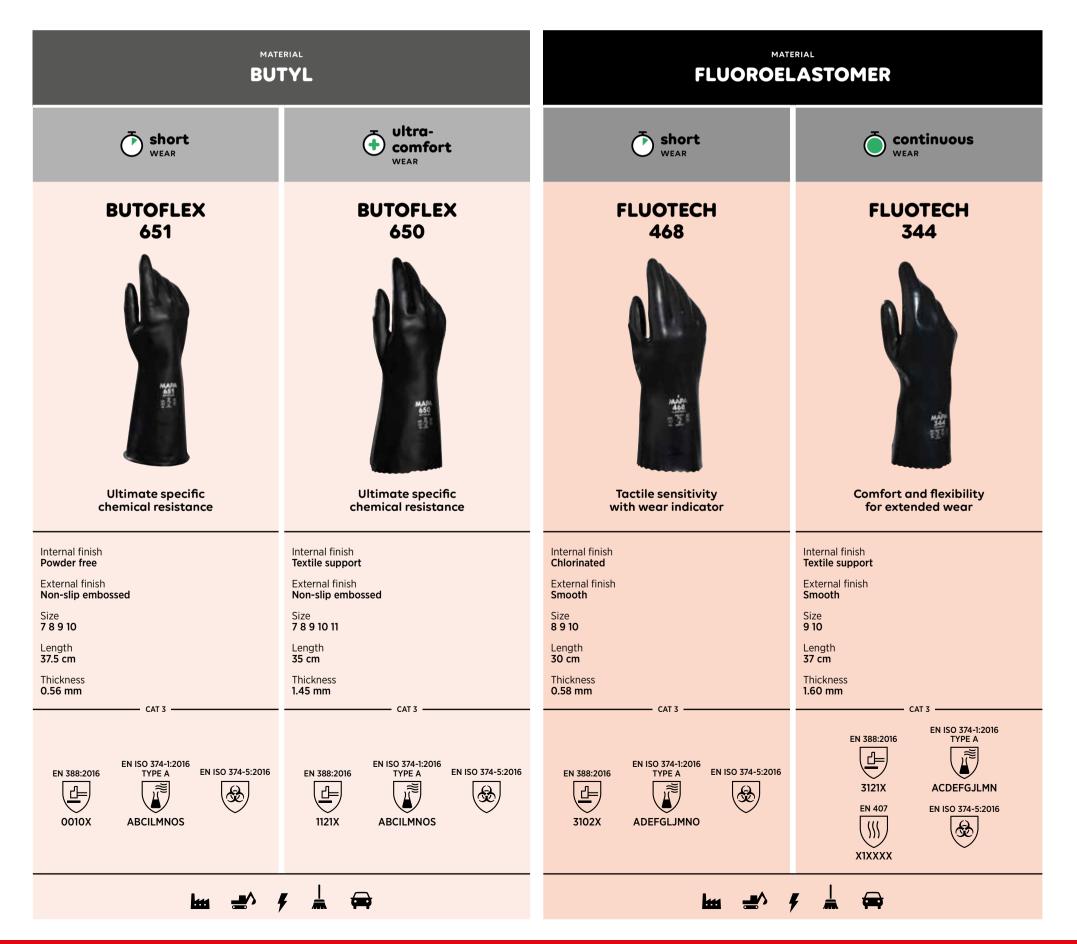
Chlorinated interior finish

Sintermittent wear Flocked interior finish

continuous wear Fabric-lined interior finish

🛈 ultra-comfort wear

MAPA exclusive technology providing greater flexibility



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.

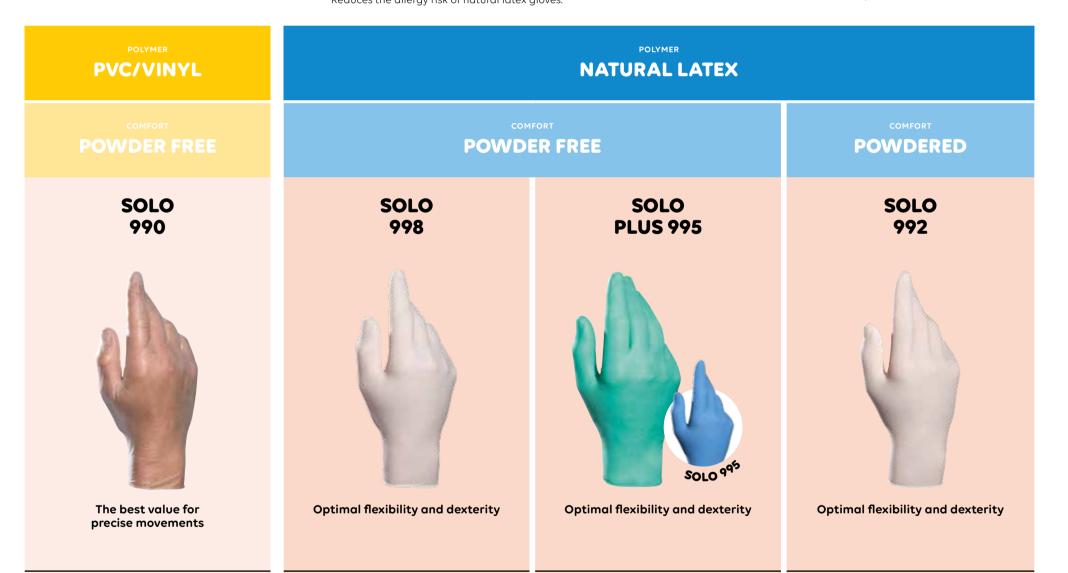
EASY DONNING TREATMENT Makes it easier to don and doff gloves, without increasing the thickness and without using powder. Reduces the allergy risk of natural latex gloves.

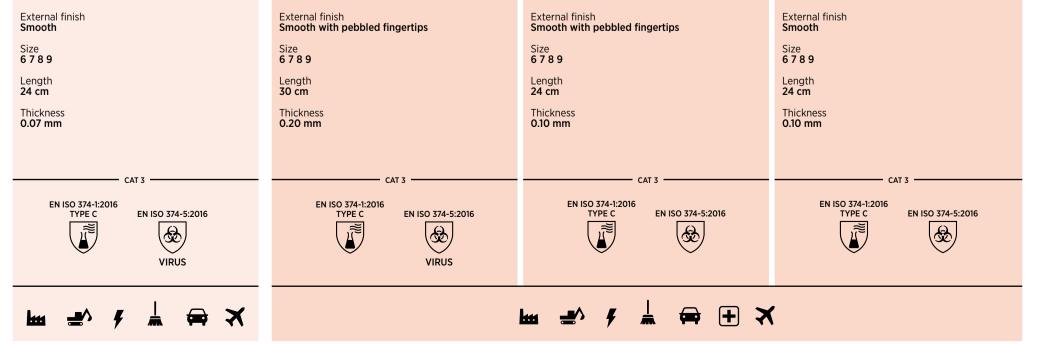
COLOUR

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.





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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.



Chlorinated	Chlorinated	Chlorinated	Chlorinated	Chlorinated
External finish Smooth with pebbled fingertips	External finish Smooth with pebbled fingertips	External finish Smooth with pebbled fingertips	External finish Smooth with pebbled fingertips	External finish Pebbled
Size 6 7 8 9	Size 6 7 8 9 10	Size 6 7 8 9	Size 6 7 8 9	Size 6 7 8 9
Length 25 cm	Length 24 cm	Length 29-30 cm	Length 24.5 cm	Length 25 cm
Thickness 0.08 mm	Thickness 0.10 mm	Thickness 0.10 mm	Thickness 0.10 mm	Thickness 0.15 mm
CAT 3	CAT 3	CAT 3	CAT 3	CAT 3
EN ISO 374-1:2016 TYPE C EN ISO 374-5:2016	EN ISO 374-1:2016 EN ISO TYPE B 374-5:2016 ISO I8889 JKT VIRUS	EN ISO 374-1:2016 TYPE B EN ISO 374-5:2016 JKT VIRUS	EN ISO 374-1:2016 TYPE B EN ISO 374-5:2016 JKT VIRUS	EN ISO 374-1:2016 TYPE B EN ISO 374-5:2016 KPT
				₩ ₩ ¥

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:

otin O dry and relatively clean environments

• oily and very dirty 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.

- $\underline{\mathbf{X}}$ short service life
- Iong service life
- high-performance service life



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.) ٠
- Superior performance in slippery settings for certain products

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

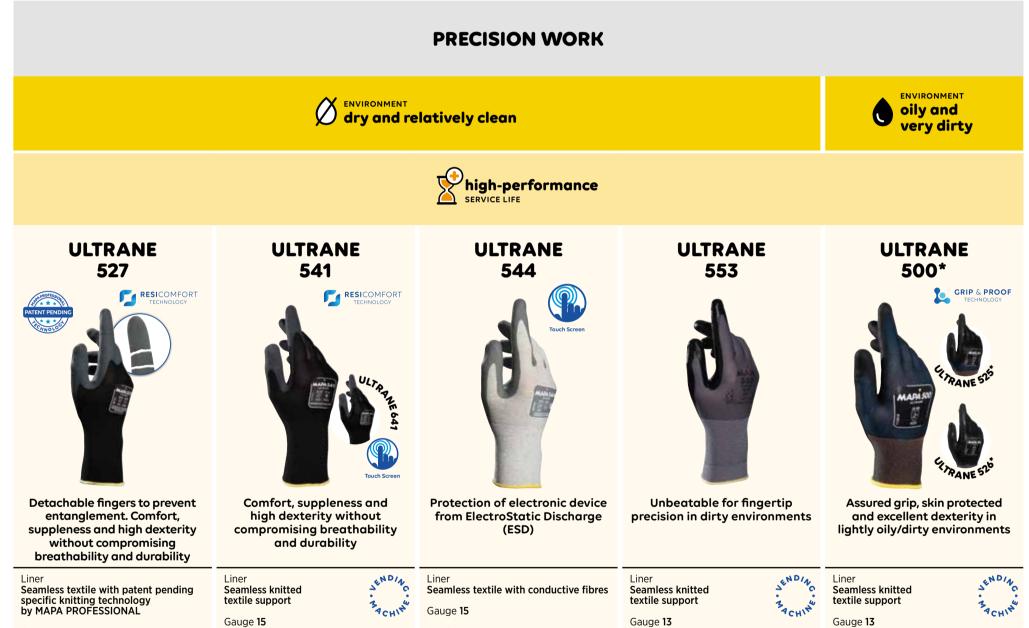
Ø dry and relatively clean environments

• oily and very dirty environments



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





MECHANICAL PROTECTION HANDLING PROTECTION: TITAN 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:

Ø 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.

- ☑ short service life
- Iong 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:

Ø dry and relatively clean environments

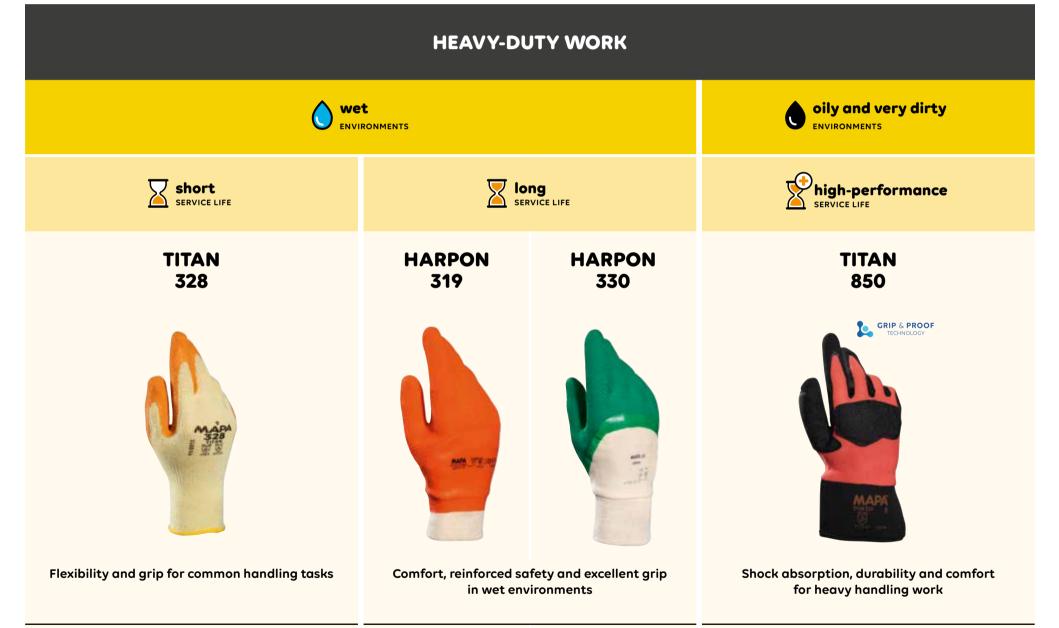
• oily and very dirty environments

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.

- **short** service life
- Iong service life
- 🖄 high-performance service life



Liner Seamless knitted textile support	HARPON 319	HARPON 330	Liner Seamless knitted textile support
Gauge 10	Liner Textile support	Liner Textile support	Gauge 13
Coating Natural latex anti-slip coating on palm and fingers Embossed, anti-slip texture	Coating Fully coated in natural latex Embossed, anti-slip texture	Coating 3/4 coating in natural latex Embossed, anti-slip texture	Coating Nitrile coating on the palm and fingers Double layer coating: Smooth nitrile - Sandy Nitrile
Cuff Knitted	Cuff Knitted	Cuff Knitted	Size 7 8 9 10 11
Size 8 9 10	Size 7 8 9	Size 6 7 8 9	Length 25-28 cm
Length 24-27 cm	Length 25-27 cm	Length 25-28 cm	
CAT 2	CA	Τ2	CAT 2
EN 388:2016 EN 407	EN 388:2016	EN 407	EN 388:2016
	(<u>I</u>)		<u>(</u>)
2142X X1XXXX	3131X X1XXXX		4132XP
		γ <i>ν</i> ητικ τ−Τ	

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.

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

- 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.

- \land low risk ISO B
- \Lambda moderate risk ISO C
- 🛕 high risk ISO D
- **very high** risk ISO E

IMPORTANT

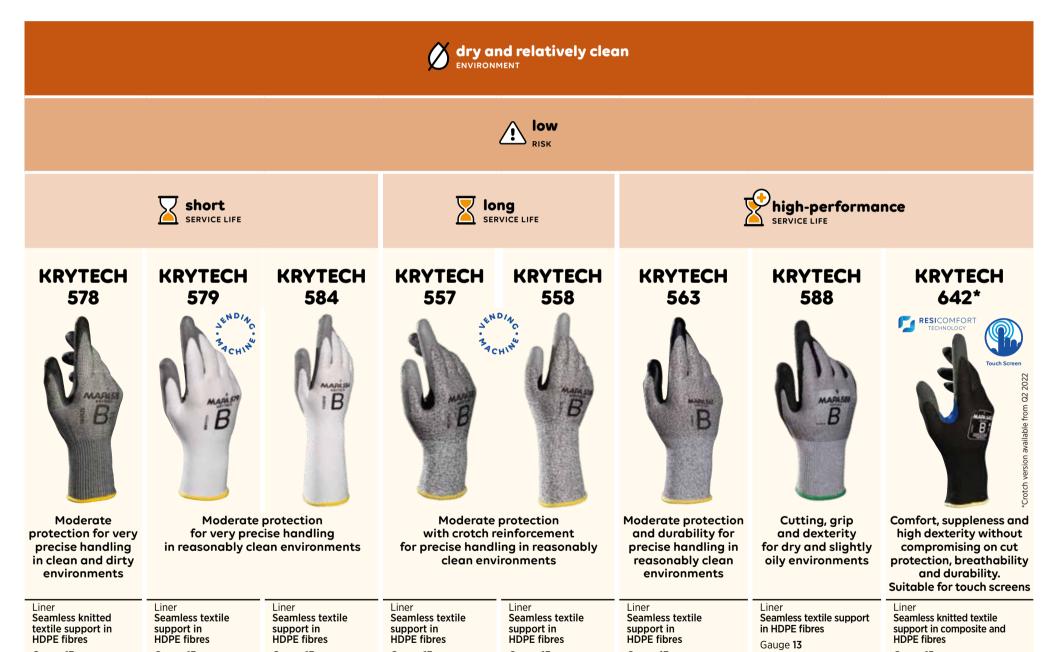
Using cut-protection gloves does not guarantee total protection (for instance, when using a cutting machine). Furthermore, the EN 388 and ISO 13997 test results give no more than an indicative average value, and an on-site study may be recommended to determine the most appropriate type of protection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

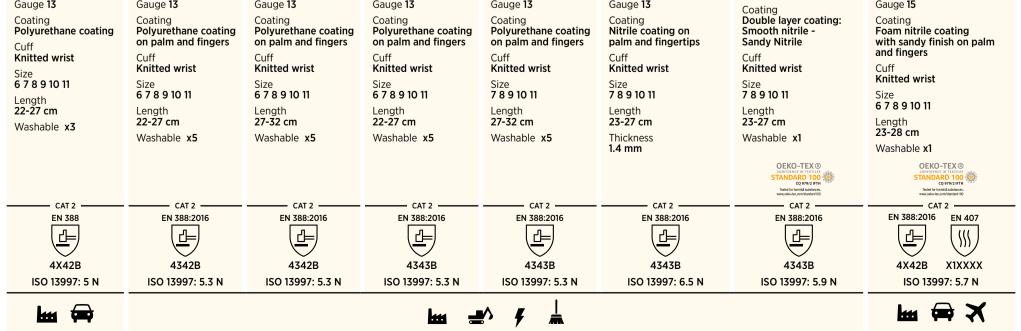
SERVICE LIFE

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.

 $\underline{\mbox{$\Sigma$}}$ short service life

- $\mathbf{\overline{Z}}$ long service life
- 😤 high-performance service life





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:

Ø 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.

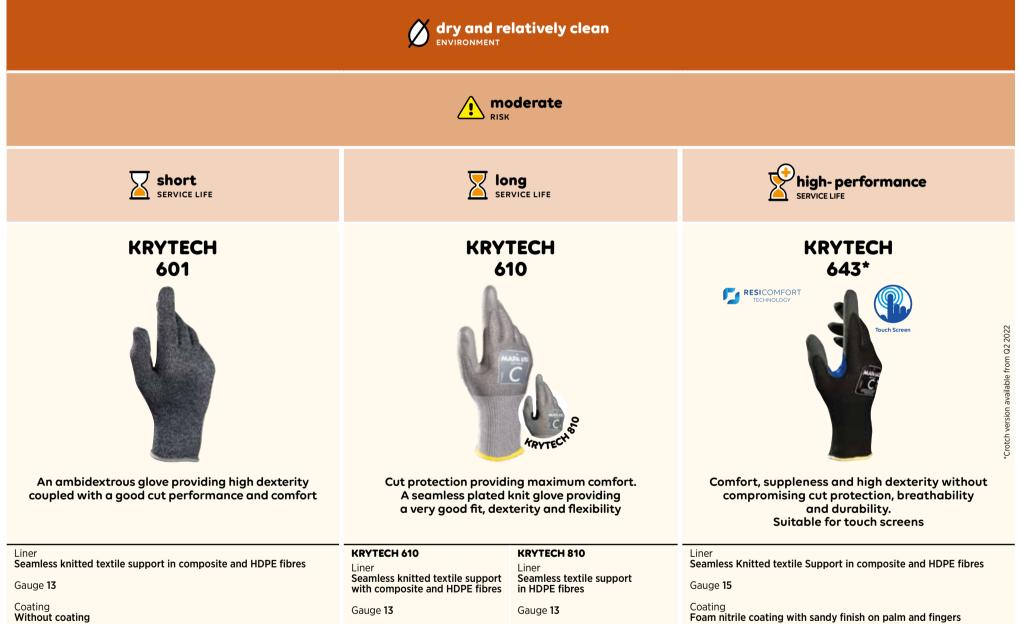
- \land low risk ISO B
- \Lambda moderate risk ISO C
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SERVICE LIFE

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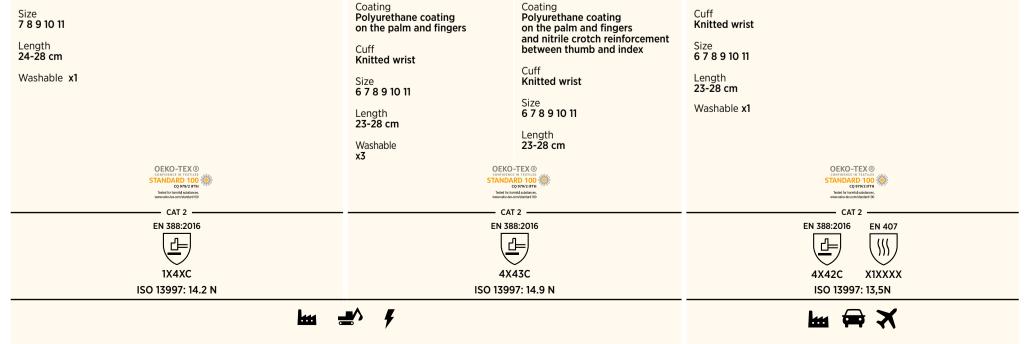
short service life

- $\mathbf{\overline{Z}}$ long service life
- **high-performance** service life



Foam nitrile coating with sandy finish on palm and fingers





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:

Ø 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.

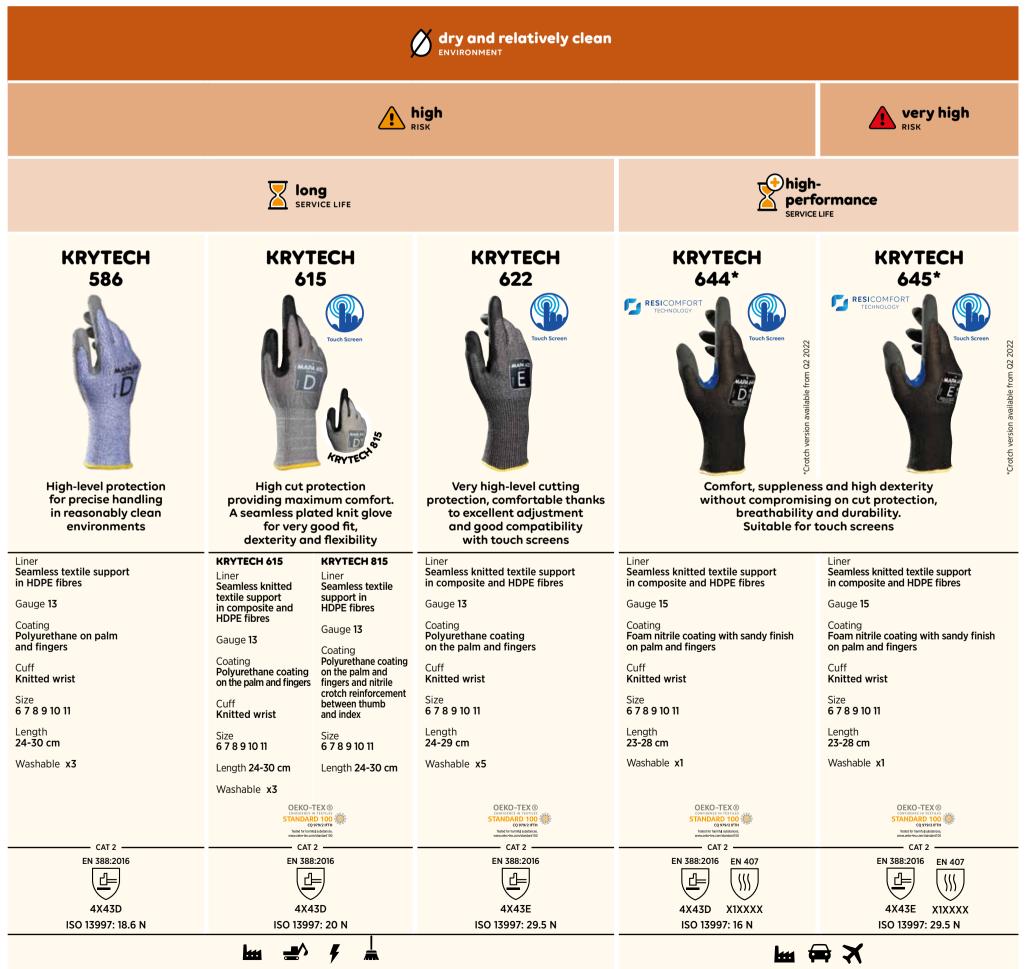
- \land low risk ISO B
- \Lambda moderate risk ISO C
- 🔺 high risk ISO D
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- high-performance service life



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:

Ø 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.

- \land low risk ISO B
- \land 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.

 $\underline{\boxtimes}$ short service life

- \mathbf{X} long service life
- high-performance service life



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:

• oily and very dirty environments

wet environments



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.

- \land low risk ISO B
- \Lambda moderate risk ISO C
- 🛕 high risk ISO D
- 🔺 very high risk ISO E



of movement to the wearer	to the wearer	cut protection	providing moderate cut protection	of movement to the wearer			
Liner Seamless knitted textile support in HDPE fibres	Liner Seamless knitted textile support in HDPE fibres	Liner Seamless knitted textile support in HDPE fibres	Liner Seamless knitted textile support in HDPE and composite fibres				
Specific features Self-gripping tape closure system Thumbslot	Specific features Self-gripping tape closure system Thumbslot	Cuff Knitted wrist Gauge 15	Specific features Self-gripping tape closure system High visibility thumbslot	Specific features Self-gripping tape closure system Thumbslot			
Gauge 13	Gauge 13	Length 45 cm Width 120 mm	Gauge 15	Gauge 13			
Length 45 cm Width 120 mm Size Unique Washable x5	Length 45 cm Width 140 mm Size Unique Washable x5	Size Unique Washable x3	Length 53 cm Width 120 mm Size Unique Washable x3	Length 60 cm Width 150 mm Size Unique Washable x5			
OEKO-TEX® CONTRACT IN VERTICE STANDARD TO CRYPTA UTTO The filt of the minit advances. New of the stands from the stands for th	OEKO-TEX ® COMPLEXE INTERNA STANDARD 100 COMPLEXE COMPLEXE Rend to transmission	OEKO-TEX ® CONTRACT IN TEXTUS STANDARD 100 COPYO210711 Brieffor terreful unatives, wickside-contravaluation	OEKO-TEX © CONTRACT IN TEATUS STADADA Og 99/2 JUTH Red to transl statuters. www.com/ec.com/status/st	OEKO-TEX® CONTINUED IN VETTLE STANDARD 100 Control Texano Texano Texano New Anti-Texano Texano New Anti-Texano Texano New Anti-Texano Texano New Anti-Texano Texano New Anti-Texano New Anti-Texano Net			
CAT 2	CAT 2	CAT 2	CAT 2	CAT 2			
EN 388:2016 EN 388:2016		EN 388:2016	EN 388:2016	EN 388:2016			
334XB	334XB	3X42C	3X42C	4X4XD			
ISO 13997: 5.3 N ISO 13997: 5.3 N		ISO 13997: 11.6 N	ISO 13997: 11.6 N	ISO 13997: 17.8 N			

HEAVY HANDLING WORK

Select your cut-protection gloves according to your specific needs. For heavy handling work, your gloves must protect against cuts and impacts but also need to be tough and long lasting.

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

Ø 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.

- \land low risk ISO B
- \Lambda 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

- $\mathbf{\overline{Z}}$ long service life
- high-performance service life





Coating Leather covering on palm with thumb/index finger reinforcementsKnitted wristCoating coating on palm with thumb/index finger reinforcementsDouble layer coating: Size 6 7 8 9 10 11 Length 34 cmCoating use for 8 9 10 11 Length size 7 8 9 10 11 Length 27-32 cmDouble layer coating: Smooth nitrile - Sandy Nitrile Size 7 8 9 10Length 32 cmCoating Double layer coating: Sandy Nitrile - Sandy Nitrile Size 7 8 9 10Coating Scoth nitrile - Sandy NitrileCoating Scoth nitrile - Sandy Nitrile Size 7 8 9 10Coating Scoth nitrile - Sandy NitrileCoating Scoth nitrile - Size 7 8 9 10Coating Scoth nitrile - Scoth	
Leather covering on palm with thumb/index finger reinforcements Size 6 7 8 9 10 11 Length 34 cm Leather covering on palm with thumb/index finger reinforcements Latex palm and fingers/ Non-slip embossed Smooth nitrile - Sandy Nitrile Smooth nitrile - Sandy Nitrile Smooth nitrile - Sandy Nitrile Sz cm Sz cm Sz cm Size 7 8 9 10 Length Size 7 8 9 10 Size 7 8 9 10 Length Length Size 7 8 9 10 Size 7 8	ISO 13997: 29.9 N
Leather covering on palm with thumb/index finger reinforcements Size 6 7 8 9 10 11 Length 34 cm Leather covering on palm with thumb/index finger reinforcements Latex palm and fingers/ Non-slip embossed Smooth nitrile - Sandy Nitrile Smooth nitrile - Sandy Nitrile Smooth nitrile - Sandy Nitrile Size 7 8 9 10 Length 21-22 cm Size 7 8 9 10 Length 21-22 cm Size 7 8 9 10 11 Size 7 8 9 10 11 Length 23-26 cm Length 21-22 cm Size 7 8 9 10 11 Length 25-28 cm Size 7 8 9 10 11 Length 23-26 cm Size 7 8 9 10 11 Length 23-28 cm Size 7 8 9 10 11 Length 23-28 cm Size 7 8 9 10 11 Length 23-26 cm Size 7 8 9 10 11 Length 23-26 cm Size 7 8 9 10 11 Length 23-28 cm Size 7 8 9 10 11 Size 7 8 9 10 11 Size 7 8 9 10 11 Length 23-26 cm Size 7 8 9 10 11 Length 23-26 cm Size 7 8 9 10 11 Size 7 8 9 10 11 <td>4X44E X1XXXX</td>	4X44E X1XXXX
Leather covering on palm with thumb/index finger reinforcements Size 6 7 8 9 10 11 Length 34 cm Leather covering on palm with thumb/index finger reinforcements Leather covering on palm with thumb/index finger reinforcements Size 6 7 8 9 10 11 Length Xa cm Leather covering on palm with thumb/index finger reinforcements Size 7 8 9 10 Size 7 8 9 10 Thickness 2.15 mm Double layer coating: Smooth nitrile - Sandy Nitrile Cuff Knitted wrist Washable x20 Cuff Knitted wrist Size 7 8 9 10 Thickness 2.15 mm Size 7 8 9 10 11 Length Xor x5 Size 7 8 9 10 11 Size 7 8 9 10 11 Length 24-27 cm Length 24-27 cm Length 23-26 cm Thickness 2 mm Size 7 8 9 10 11 Length 27-32 cm CAT 2 CAT 3 EN 388:2016 EN 407 EN	
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Leather covering on palm with thumb/index finger reinforcementsSize 6 7 8 9 10 11Leather covering on palm with thumb/index finger reinforcementsLatex palm and fingers/ Non-slip embossedSmooth nitrile - Sandy NitrileLength 32 cmDouble layer coating: Smooth nitrile - Sandy NitrileCuff Knitted wristWashable x20Cuff Knitted wristCuff Knitted wristSize 7 8 9 10Thickness 2.15 mmSize 7 8 9 10 11Size 7 8 9 10 11Size 8 9 10 11Size 8 9 10 11Length 23-26 cmThickness 21-22 cmSize 7 8 9 10Length WashableLength WashableSize 8 9 10 11Length 23-26 cmThickness 2 mmLength 21-22 cm	CAT 2
Leather covering on palm with thumb/index finger reinforcementsSize 6 7 8 9 10 11Leather covering on palm with thumb/index finger reinforcementsLatex palm and fingers/ Non-slip embossedSmooth nitrile - Sandy NitrileLength 32 cmDouble layer coating: Smooth nitrile - Sandy NitrileCuff Knitted wristWashable x20Cuff Knitted wristSize 7 8 9 10Thickness 21-22 cmThickness 2.15 mmSize 7 8 9 10 11Size 7 8 9 10 11Size 8 9 10 11Length 23-26 cmThickness 21-22 cmSize 7 8 9 10Length 21-22 cm	Length Washable 30 cm x5
Leather covering on palm with thumb/index finger reinforcementsSize 6 7 8 9 10 11Leather covering on palm with thumb/index finger reinforcementsLatex palm and fingers/ Non-slip embossedSmooth nitrile - Sandy NitrileLength 32 cmDouble layer coating: Smooth nitrile - Sandy NitrileCuff Knitted wristWashable x20Cuff Knitted wristSize 7 8 9 10Thickness 2.15 mmSize 7 8 9 10Size 7 8 9 10	Size 8 9 10 11
Leather covering on palm with thumb/index finger reinforcementsSize 6 7 8 9 10 11Leather covering on palm with thumb/index finger reinforcementsLatex palm and fingers/ Non-slip embossedSmooth nitrile - Sandy NitrileLength Size 7 8 9 10Double layer coating: Smooth nitrile - Sandy NitrileLeather covering on palm with thumb/index finger reinforcementsSize 6 7 8 9 10 11Leather covering on palm with thumb/index finger reinforcementsLatex palm and fingers/ Non-slip embossedSmooth nitrile - Sandy NitrileDouble layer coating: Smooth nitrile - Sandy NitrileCuffSize 7 8 9 10Thickness 2.15 mmSafety cuff	Cuff Knitted wrist
Leather covering on palm with Size 6 7 8 9 10 11 thumb/index finger Size 6 7 8 9 10 11 Leather covering on palm with Size 6 7 8 9 10 11 Size 6 7 8	fingertips / Nitrile crotch reinforcment
	leather reinforcement at palm except thumb/index
Cuff Coating Size 8 9 10 Cadge 15	Coating Foam nitrile coating with
Gauge 13 Gauge 10 Gauge 10 Gauge 10 Gauge 10 Gauge 10 Gauge 13 Gau	Gauge 13

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.





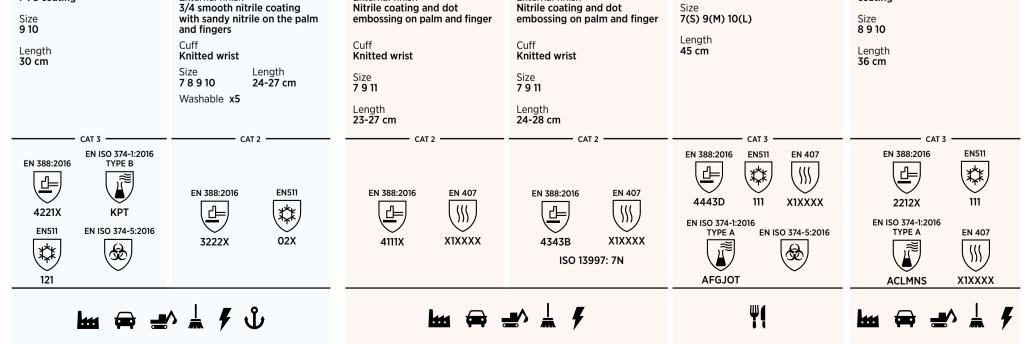
External finish Pebbled PVC coating

Gauge **10 for internal seamless** Gauge **15 for external seamless**

External finish

Gauge 13

External finish



Gauge 10

External finish

Non-slip embossed

Nitrile coating

Pebbled

coating

Polychloroprene (neoprene)

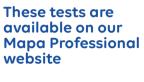
FOOD EXPERT RANGE \square

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 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.



mapa-pro.com

SELECT THE RIGHT GLOVE FOR YOU DEPENDING ON THE FOOD HANDLED THEN CHECK YOUR GLOVE FOR USE AND COMFORT

STEP 1 Find the food you handle using the food groups.STEP 2 Identify the gloves suitable for handling this type of food.

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

		Page 55				Page 57				Page 59			
FOOD CONTACT:	Suitable for contact		Dispessible										
YOUR SELECTION	with this type of food If pH > 4.5 , suitable for contact	Natur	Disposable	Nitvilo	Thermal Protection	Cut Protection		Wata		quid-proof glov		n lata ku limuid m	read a
	with this type of food a If pH < 4.5 , unsuitable u	Natura	al latex	Nitrile				wate	rproof		Com	pletely liquid-p	roor
SELECT THE RIGHT GLOVE	Unsuitable for contact with this type of food												
STEP 1	YOU ARE HANDLING	SOLO 988	SOLO 995	SOLO 967	ТЕМРСООК 476	KRYTECH 838	VITAL 177	VITAL 165	JERSETTE 308	HARPON 326	ULTRANITRIL 472	ULTRANITRIL 475	ULTRANITRIL 495
DRINKS	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol. clear Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol. cloudy Alcoholic beverages of an alcoholic strength of between 6% vol. and 20%.												
	Alcoholic beverages of an alcoholic strength above 20%. Starches, cereals, flour, meal, dry pasta e.g. macaroni, spaghetti and similar products												
CEREALS, STARCHES, SUGARS, CHOCOLATES	and fresh pasta Biscuits, pastry, cakes and other bakery products, dry, sugar and confectionery products in solid form; with no surface fat Biscuits, pastry, cakes and other bakery products and confectionery products in solid form; with fatty substances, chocolate, substitutes and coated products												
AND DERIVED	Confectionery products in wet dough form												
PRODUCTS	Molasses, sugar syrups, honey												
	Confectionery products with surface fat												
FRUIT, VEGETABLES AND DERIVATIVES	Whole fruit, fresh or chilled, unpeeled; dried or dehydrated fruits; nuts shelled and roasted Fresh vegetables, peeled or cut Processed: cut, in the form of purées, paste or preserved in an aqueous medium, including pickled and in brine Processed in an alcoholic medium Preserved vegetables in an oily medium												
	Preserved fruits in an oily medium												
	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												
	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 crust												
	Processed cheese (soft cheese), preserved cheese in an aqueous medium (mozzarella)												
	Preserved cheese in an oily medium												
	Milk powder including infant formula												
	Water-based sauces												

	Water-based sauces						
DDESCINCS	Fat-based sauces (e.g. mayonnaise, salad creams)						
	Vinegar						
FOOD	Sandwiches, toasted bread, pizza containing any kind of foodstuff with surface fat						
	Sandwiches, toasted bread, pizza containing any kind of foodstuff but with no surface fat on the surface						
	Soups, sauces, broths powdered or dried with fats (including yeast)						
	Soups, sauces, broths powdered or dried but without fats (including yeast)						
	Soups, sauces, broths in any other form with fats (including yeast)						
	Soups, sauces, broths in any other form but without fats (including yeast)						
	Fried or roasted foods of vegetable origin (fried potatoes, fritters)						
	Fried or roasted foods of animal origin						
	Dried foods with surface fat						
	Dried foods with no surface fat						
	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						
	Ice-creams						

FOOD EXPERT RANGE \square

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.

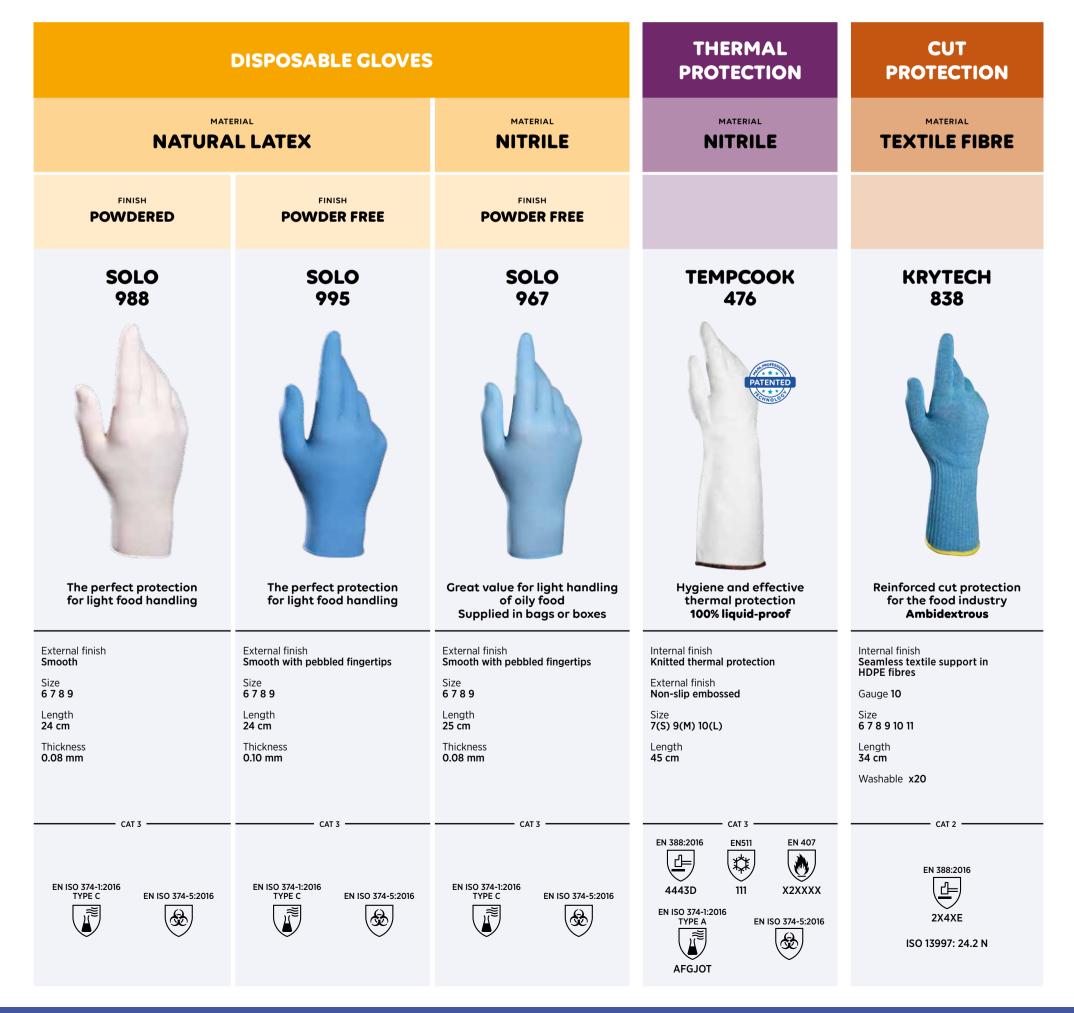
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Indeed, simply affixing the pictogram to a glove without giving more detailed information does not provide an adequate guarantee of compatibility with a given food.

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





FOOD EXPERT RANGE

LIQUID-PROOF 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).

(Chlorinated interior finish)

intermittent wear (Flocked interior finish)

🖲 continuous wear

(Fabric-lined interior finish)

Ultra-comfort wear
 (MAPA exclusive technology providing greater flexibility)

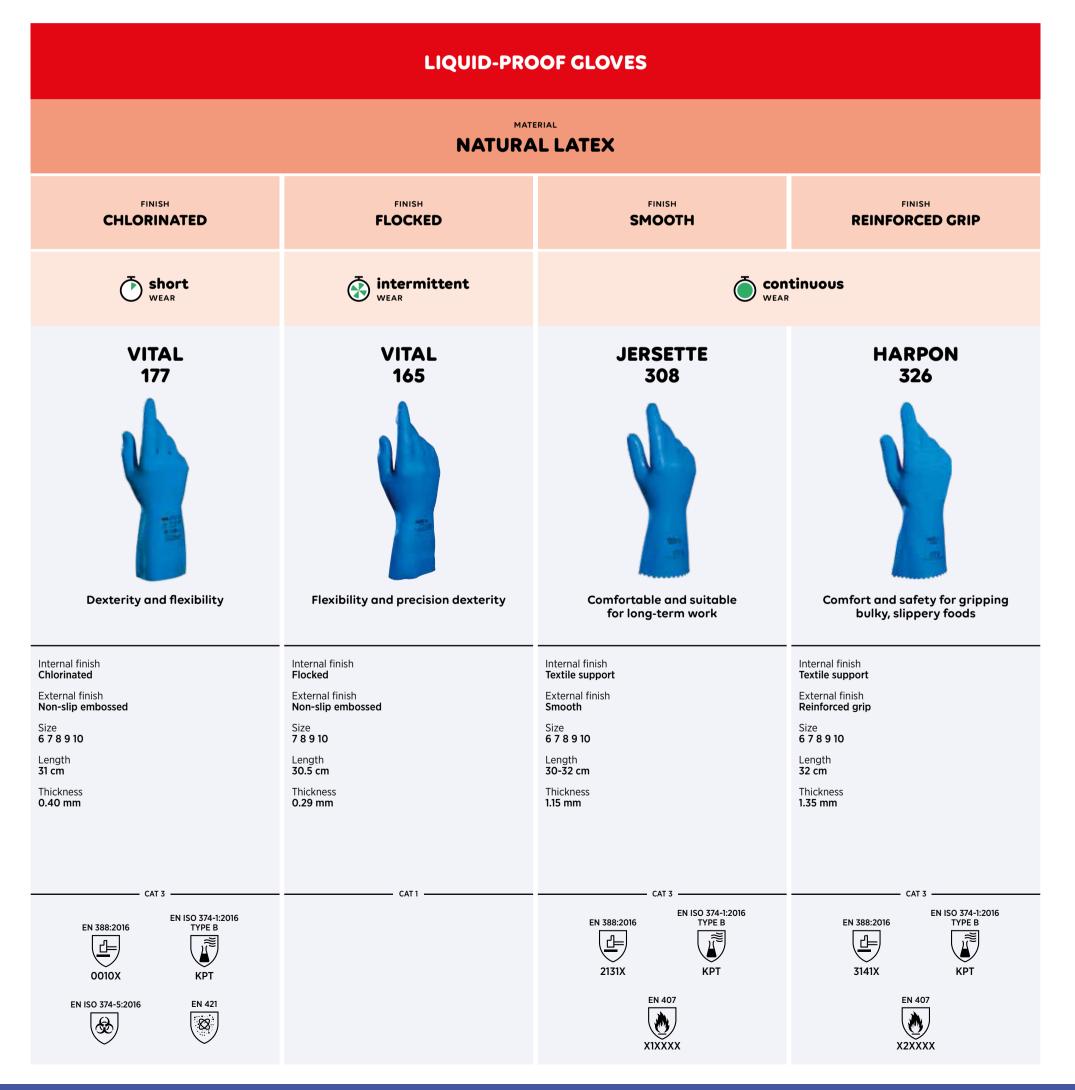
MATERIAL

Materials guide for disposable and liquid-proof gloves.

Natural latex Flexibility, comfort and value for money.

Nitrile

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





FOOD EXPERT RANGE

LIQUID-PROOF 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:

👗 splashes

A frequent contact

A 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).

O 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

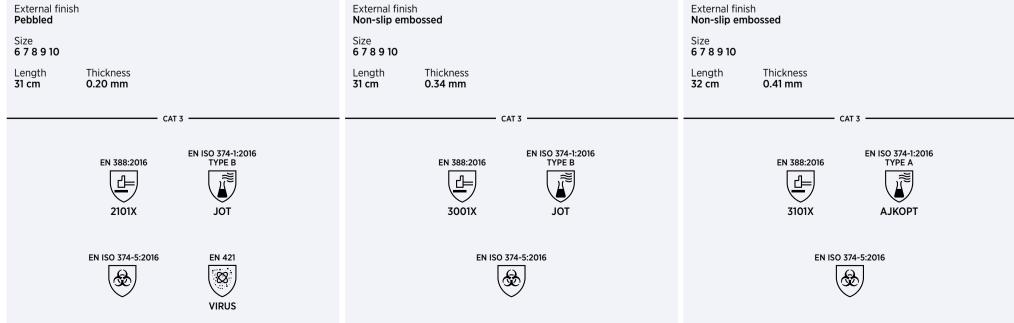
Flexibility, comfort and value for money.

Nitrile

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



58



FOOD EXPERT RANGE

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.

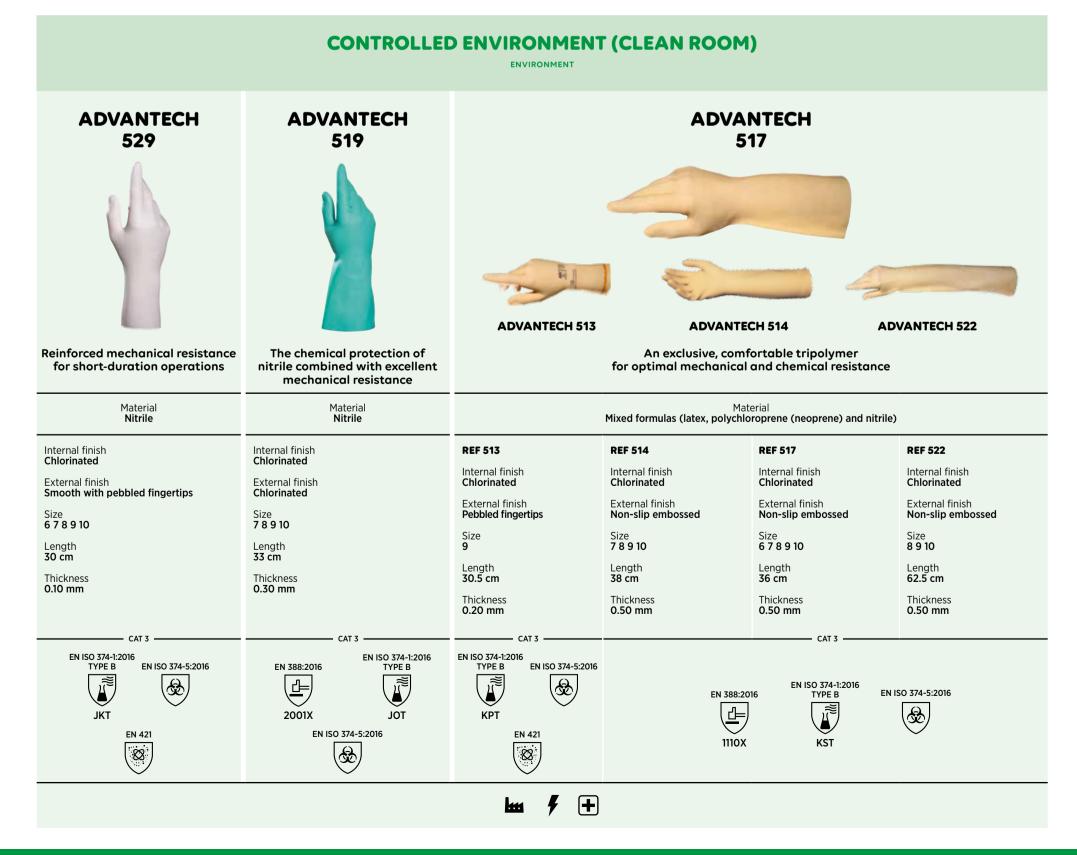
Created with innovative, highly technical processes and subject to inspection at every stage of their design and packaging, these gloves satisfy all the quality criteria necessary for work in controlled environments.

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.



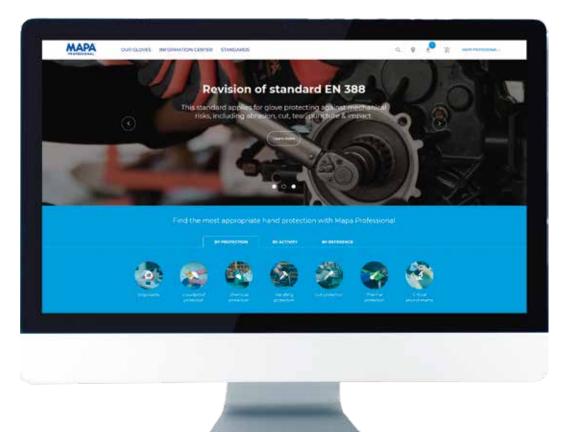
Packaging information

References	Pair/Bag	Pairs/ Masterbag	Pairs/ Carton	Page N ^r	References	Pair/Bag	Pairs/ Masterbag	Pairs/ Carton	Page N ^r
115	1	10	100	15	529	-	100	1 000	61
117	1	10	100	15	532	-	6	72	47
124	1	10	100	15	532 VM	1 sleeve	-	72 sleeves	47
165	1	10	100	53, 57	532 S	-	6	72	47
175	1	10	100	15	538	-	6	48	47
177	1	10	100	15, 53, 57	538 VM	1 sleeve	-	48 sleeves	47
180	1	10	100	15	540	1	-	100	15
181	1	10	100	15	541	-	12	96	33
185	1	10	100	15	544	1	12	96	33
186	1	10	100	15	548	1	12	96	31
210	1	10	100	15	548 VM	1	12	96	31
258	1	10	100	17	549	1	12	96	31
260	1	10	50	19	549 VM	1	12	96	31
285	1	-	30	19	550	-	10	100	31
298	1	5	50	19	550 VM	1	10	100	31
299	1	5	50	19	551	-	10	100	31
300	1	5	50	17	551 VM	1	10	100	31
301	1	5	50	17	553	1	10	100	33
307	1	5	50	17	553 VM	1	10	100	33
308	1	5	50	53, 57	557	1	10	50	39
319	1	5	50	37	557 VM	1	5	50	39
321	1	-	50	19	558	1	12	96	39
325	1	5	50	19	563	1	12	96	39
326	1	5	50	53, 57	578	1	12	48	39
328	1	12	96	37	579	1	12	96	39
330	1	5	50	37	579 VM	1	6	96	39
332	1	-	6	51	580	1	12	48	45
339	1	-	6	23	580 VM	1	12	48	45
340	1	5	50	23	582	1	12	48	45
341	1	5	50	23	582 VM	1	6	48	45
344	1	-	1	25	584	1	12	96	39
351	-	12	72	15	585	1	12	48	45
369	-	5	50	15	586	1	12	48	43
375	1	5	50	35	586 VM	1	6	48	43
376	1	5	50	35	588	1	12	48	39
377	1	5	50	21	588 VM	1	12	48	39
380	1	6	48	49	599	1	12	48	45
381	-	12	72	21	600	1	12	48	45
382	-	12	72	23	601	-	12	48	41
383	-	10	100	35	602	6	-	72	47

385	-	10	100	35	603	6	-	72	47
388	-	10	100	35	610	1	12	48	41
391	-	10	100	35	615	1	12	48	43
392	-	10	100	35	622	1	12	48	43
393	-	10	100	35	641	1	12	96	33
395	1	-	12	49	642	1	12	48	39
397	1	10	100	35	643	1	12	48	41
401	1	10	100	23	644	1	12	48	43
405	1	10	100	17	645	1	12	48	43
407	1	6	48	23	648	1	12	96	31
414	1	-	12	23	650	1	•	25	25
415	1	10	100	17	651	1	-	25	25
420	1	10	100	23	700	1	12	72	51
450	1	10	50	23	710	1	10	50	51
454	1	-	50	21	710 VM	1	5	50	51
468	1	-	1	25	720	1	12	72	51
472	•	10	100	21, 53, 59	720 VM	1	6	72	51
475	1	12	72	53, 59	720 014			48	51
476	1	-	6	51, 53, 55	810	1	- 12	48	41
480	1	-	12	21					
485	-	12 10	72 100	21 21	815	1	12	48	43
487	-			21	832	1	12	72	49
<u>491</u> 492	- 1	10 10	50 100	21	833	-	10	100	35
492 VM	1	12	72	21	836	1	12	48	49
493	1	10	50	21	837	•	12	48	49
495	1	10	100	53, 59	838	1	•	10	49, 53, 55
500	1	12	96	33	840	1	12	72	49
500 VM	1	6	96	33	850	1	12	48	37
510	1	12	96	31	851	1	12	48	49
513	-	50	200	61	967	•	100	1 000	29, 53, 55
514	1	12	72	61	977	•	100	1 000	29
517	1	12	72	61	987	•	100	1 000	29
519	1	12	72	61	988	-	100	1 000	53, 55
520	1	10	100	15	990	-	100	1 000	27
522	1	6	48	61	992	-	100	1 000	27
524	1	12	96	31	994	-	100	1 000	29
525	1	12	96	33	995	-	100	1 000	27, 53, 55
525 VM	1	6	96	33	997	•	100	1 000	29
526	1	12	96	33	998	-	100	1 000	27
527	1	12	96	33	999	-	100	1 000	29

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

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