



CATALOGUE 2021

PROTECTIVE GLOVES

A solution
for every hand
that works

MAPA[®]
PROFESSIONAL

A SOLUTION FOR EVERY HAND THAT WORKS

Mapa Professional is committed to offering **companies innovative solutions** for protecting the hands which meet users' needs.

Our brand is involved in **the health and safety** of users at their workplace.

Our offer meets requirements for **comfort and protection** for most risks in the professional environment.

PROTECTION OF THE HAND MAPA PROFESSIONAL BEYOND THE GLOVE

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



1 Customer Engineering Department

stc.mapaspontex@newellco.com



2 R&D centres

(60 engineers and technicians)



Integrated production

(3 factories worldwide)



1 Application laboratory

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

HOW TO READ THIS CATALOGUE?

Step 1: Identify your protection needs



PAGE 10
Chemical protection



PAGE 28
Mechanical protection



PAGE 44
Thermal protection



PAGE 46
Food expert range



PAGE 54
Critical environment protection

Step 2: Define the type of glove

Define the type of gloves that best meets your needs in terms of:

- **usage** (performance, comfort, environment, wearing time),
- **the environment and the risks involved.**

Step 3: Select the most appropriate reference

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

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

How to read the pictograms?



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



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



ENERGY
Nuclear, wind turbine,
petrochemical industries



CLEANING
Handling of detergents
Industrial cleaning
Small general maintenance jobs

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 the users.

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

Harmonized 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 for the risks for which the product is intended to protect.

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 at 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 the manufacturers or importers and conformity procedures to affix the CE marking on PPE.

Directive 89/656/EEC is dedicated to the professional users of PPE. It lays down the responsibilities of the employers to supply and ensure a safe use of adequate CE-marked PPE by their employees.

CATEGORIES OF RISK AND CORRESPONDING CERTIFICATION PROCEDURE

CAT 1

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

CAT 2

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

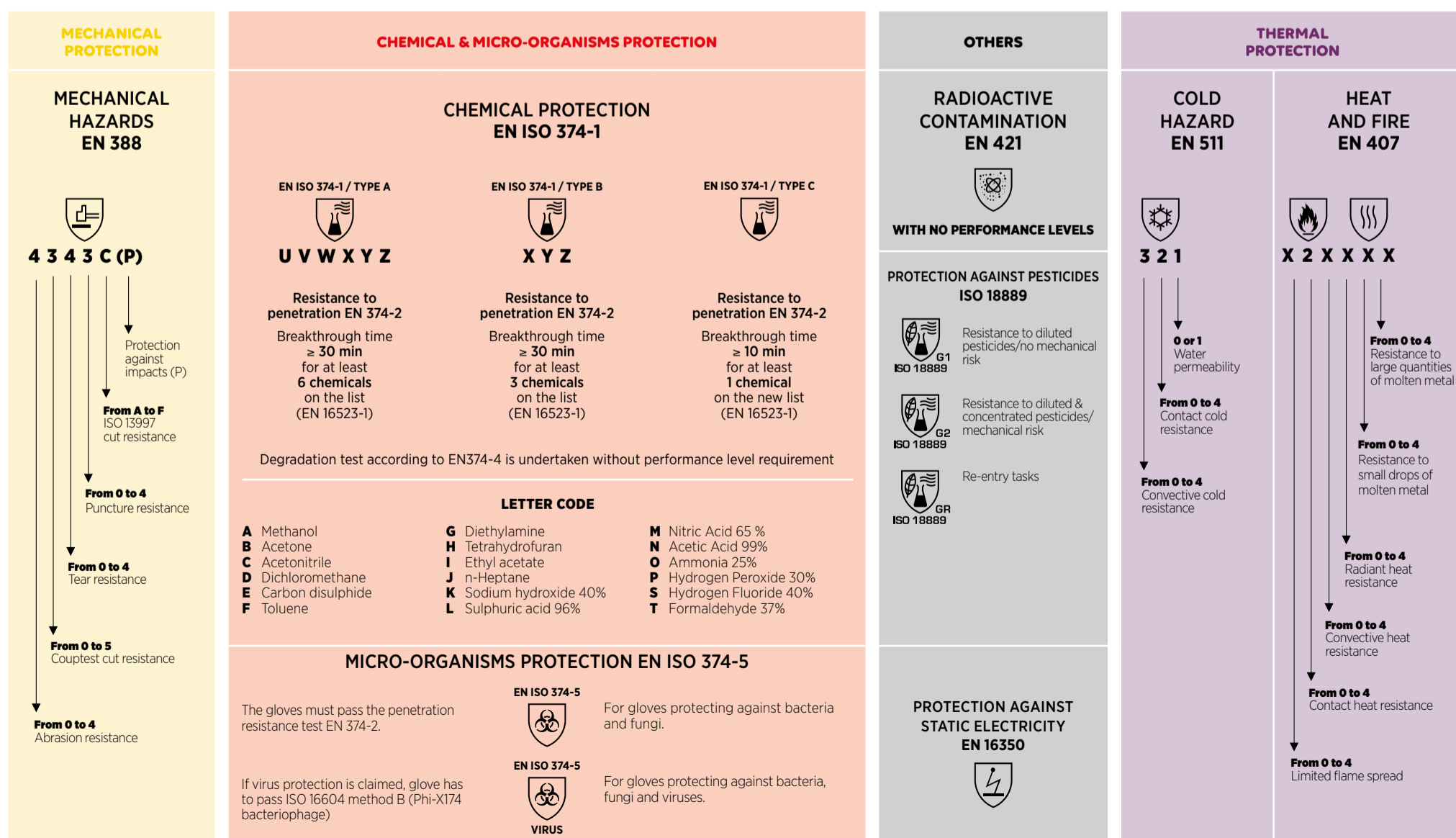
CAT 3

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 informations

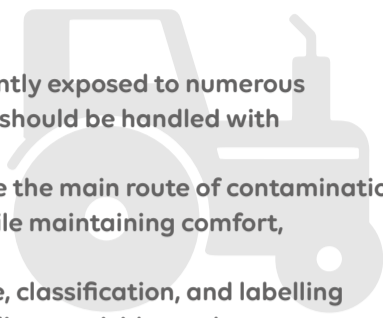
PROTECTION AGAINST PESTICIDES

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.




GLOVE CLASSIFICATION
Protective gloves are classified into 2 categories:

WHOLE HAND PROTECTION GLOVE		PARTIAL HAND PROTECTION GLOVE (fingertips and palm-side)
Relatively low potential risk	Higher potential risk	GR gloves  ISO 18889 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
G1 gloves  ISO 18889 Handling diluted pesticides No mechanical risk	G2 gloves  ISO 18889 Handling diluted or concentrated pesticides Minimum mechanical resistance requirement	
Disposable gloves	Chemical gloves	High dexterity mechanical gloves

STATIC ELECTRICITY

Which standard deals with electrostatic properties?

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

ESD : MAPA PROFESSIONAL POSITION

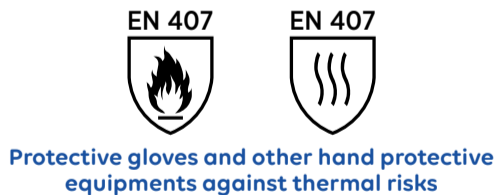
Working in ATEX zones or handling electronic devices, both areas have the same need for suitable gloves : they must be dissipative. As there is no standard for ESD gloves, at MAPA PROFESSIONAL we decided to refer to the EN 16350 (ATEX gloves). This standard is very strict, so a glove complying to EN 16350 will be suitable for handling electronic devices.





Standards changes

EN 407

The EN 407 standard was revised in 2020.

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



BEFORE	NOW	BEFORE	NEW NOW
GLOVES RESISTANT TO FLAME			
EN 407  321XXX	EN 407  321XXX NO CHANGE	The performance levels were based on the average value of test results No mechanical resistance requirement	The performance levels are based on the lowest value of test results Introduction of a minimum mechanical resistance: minimum level 1 (10N) for tear resistance - EN 388
GLOVES NOT RESISTANT TO FLAME			
EN 407  X2XXXX	NEW EN 407  X2XXXX	Minimum length required by EN 420:2004 Issue with flame test with leather gloves	Higher minimum requirement of length for gloves that offer protection from metal projection Test is now reliable

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 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

NEW INNOCUOUSNESS	NEW ELECTROSTATIC PROPERTIES	NEW GLOVE SIZING	NEW GLOVE MARKING	NEW INSTRUCTIONS OF USE
Limited content of DMF (Dimethylformamide) in polyurethane (PU) gloves. It shall not exceed 1 000 mg/kg Limited content of Polycyclic Aromatic Hydrocarbons (PAHs) in the rubber or plastic materials. It shall not exceed 1 mg/kg	For ATEX area new pictogram EN 16350  The electrostatic properties shall be tested according to the EN 16350 standard (test method EN1149-2)	No more minimum length required Sizes of gloves are defined with respect to the sizes of the hands they are to fit!	For a better manufacturing batch traceability, gloves shall be marked with: Manufacturing date at least the month and year If applicable, obsolescence date behind the  pictogram	Donning, doffing & glove adjustment instructions Comfort & hygiene Protection from contamination Natural rubber content warning No more mandatory* on instructions of use: list of substances that can cause allergies (other than rubber) *on request

UNDERSTAND THE SPECIAL FEATURES OF A GLOVE TO IMPROVE CHOICE

Different cuff edging Depending on your use



Safety cuff

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



Knitted cuff

Fits to the hand well and protects the wrist.



Straight cuff

Better ventilation of the hand



Rolled cuff

Increased resistance to tearing when putting gloves on



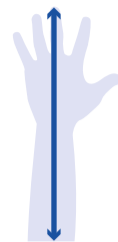
Scalloped cut

Increased service life of the glove

Shapes, sizes and thicknesses

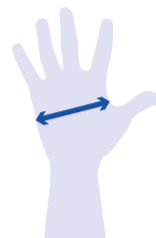
Glove length

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



Glove size

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



Glove thickness

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



Anatomical or ambidextrous gloves

Anatomical gloves

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



Ambidextrous gloves

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



A number of external finishes according to your needs



Smooth

Does not mark the handled objects



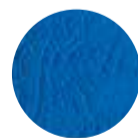
Non-slip embossing

Excellent grip in oily environments



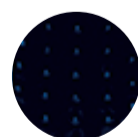
Pebbled

Good grip and minimal glove fouling



Reinforced grip

Excellent grip in wet environment



Dot embossing

Improved thermal insulation

The different types of internal finish

Powdered

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

Chlorinated/Easy donning treatment

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

Reduces the allergy risk of natural latex gloves.

Flocked

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

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

Textile support

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

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

Use the «Ultracomfort» pictogram to locate this technology.

The different textile types:

Cotton

Comfort, thermal insulation and absorption of perspiration.

Polyamide

Optimised dexterity (fine, seamless).

Para-aramid

Cutting and heat resistance.

High density polyethylene

Cut-resistance and optimised dexterity.

MAPA TECHNOLOGIES (SEE NEXT PAGE)



Excellent grip in oily environments
combined with liquidproof protection



Comfort and allows hand to breathe
without compromising durability

UNDERSTANDING THE SPECIAL FEATURES OF A GLOVE TO IMPROVE CHOICE



Our GRIP&PROOF coating technology has the following benefits for users handling greasy or oily parts:

SKIN PROTECTION

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

GRIP

- Excellent grip when handling oily parts with or without a cutting risk
- Reduction in risk of objects falling
- Reduction in muscle fatigue and risk of RSI (Repetitive Strain Injury)
- Ensures better productivity

RESISTANCE

- Usage prolonged due to a very durable coating
- Cleanliness increased by sealing
- Optimisation of expenses



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

Through its expertise and reliable usage tests, Mapa Professional has designed a range of gloves including the GRIP&PROOF technology which combines sealing and grip with or without cutting for oily or greasy environments. This technology can be found in our ULTRANE and KRYTECH ranges



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

COMFORT AND BREATHABILITY

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

RESISTANCE

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




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

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

NEW PRODUCTS

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

CHEMICAL PROTECTION		MECHANICAL PROTECTION				
VITAL 185	VITAL 186	ULTRANE 648	ULTRANE 524	ULTRANE 544	ULTRANE 641	ULTRANE 527
CHEMICAL PROTECTION TYPE B	CHEMICAL PROTECTION TYPE B					
						
Precision dexterity in non-aggressive environments Colour-coding to increase safety	Precision dexterity in non-aggressive environments Colour-coding to increase safety	Optimal dexterity and sensitivity for light protection. Suitable for touch screens	Protection of electronic device from ElectroStatic Discharge (ESD)	Protection of electronic device from ElectroStatic Discharge (ESD)	Comfort suppleness and high dexterity without any compromise on breathability and durability	Detachable fingers glove to avoid hand risk injuries. MAPA Patented Comfort suppleness and high dexterity without any compromise on breathability and durability
See page 15	See page 15	See page 31	See page 31	See page 33	See page 33	See page 33

CUT PROTECTION					
KRYTECH 642	KRYTECH 643	KRYTECH 644	KRYTECH 645	KRYTECH 810	KRYTECH 815
CUT PROTECTION LEVEL B	CUT PROTECTION LEVEL C	CUT PROTECTION LEVEL D	CUT PROTECTION LEVEL E	CUT PROTECTION LEVEL C	CUT PROTECTION LEVEL D
					
Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens	Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens	Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens	Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens	A cut protection with a maximum comfort. A seamless plaited glove for very good fit, dexterity and flexibility	High cut protection with a maximum comfort. A seamless plaited glove for very good fit, dexterity and flexibility
See page 39	See page 41	See page 43	See page 43	See page 41	See page 43

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.

1. PERMEATION TIMES

The permeation time for a given chemical product, i.e. the time taken for the chemical to penetrate the glove, at a molecular level; in some cases, there is no visible deterioration of the glove.

2. DEGRADATION INDEX

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

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

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

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

** Protection targeted against certain aggressive chemical product families, these are more stringent than for standard materials.



Value for money
Mechanical strength

Excellent flexibility
Good puncture and tearing resistance
Adapted to cold environment

Good puncture and abrasion resistance
No risk of protein-related allergies

Good flexibility
Good thermal resistance

Excellent chemical resistance
Flexible and elastic

High chemical resistance

Not suitable for handling hot parts

Risk of allergies caused by the proteins in the natural latex

Not recommended for cold environments

Poor mechanical properties

Poor mechanical properties

CHEMICAL PROTECTION TELSOL - VITAL RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK
Combination between contact time and the aggressiveness of the chemical being handled.
Choose the performance of your gloves based on the type of risk:

🧪 splashes

Chemical substances diluted by immersion or splashes of aggressive substances

🧪🧪 frequent contact

Pure or mixed chemical substances in frequent contact

🧪🧪🧪 prolonged contact (or immersion)

Pure or mixed chemical substances in frequent contact

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

🕒 short wear

Chlorinated interior finish

🌿 intermittent wear

Flocked interior finish

🌿 continuous wear

Fabric-lined interior finish

🌿 ultra-comfort wear

MAPA exclusive technology providing greater flexibility

MATERIAL PVC		MATERIAL NATURAL LATEX				MATERIAL LATEX MIX					
🧪🧪 frequent CONTACT		🧪 splashes									
🌿 continuous WEAR		🕒 short WEAR		🌿 intermittent WEAR							
TELSOL 361 Long-lasting mechanical protection against low chemical hazards	TELSOL 351 Comfort, flexibility and mechanical protection for low chemical hazards	VITAL 174 Dexterity and flexibility for light aggressive environments	VITAL 520 Dexterity and flexibility in light aggressive environments	VITAL 115 Precision dexterity in non-aggressive environments Colour-coding to increase safety	VITAL 210 The effective response to contact with aggressive detergents	VITAL 180 Dexterity and better resistance to oils and greases	VITAL 181 Dexterity and better resistance to oils and greases				
Internal finish Textile support External finish Pebbled Size 9 10 Length 35 cm Thickness 1.20 mm	Internal finish Textile support External finish Pebbled Size 8 9 10 Length 30 cm Thickness 1.35 mm	VITAL 174 Internal finish Easy donning treatment / chlorinated External finish Pebbled Size 7 8 9 Length 31 cm Thickness 0.45 mm	VITAL 175, 177 Internal finish 175: Easy donning treatment / chlorinated 177: chlorinated External finish Non-slip embossing Size 6 7 8 9 10 Length 31 cm Thickness 0.40 mm	VITAL 520 Internal finish Powdered External finish Smooth Size 6 7 8 9 Length 33 cm Thickness 0.40 mm	VITAL 540 Internal finish Powdered External finish Non-slip grip Size 8 9 10 Length 31 cm Thickness 0.40 mm	VITAL 115 Internal finish Flocked External finish Non-slip embossing Size 6 7 8 9 Length 30.5 cm (30 cm - 186) Thickness 0.35 mm	VITAL 117, 124 Internal finish Flocked External finish Non-slip embossing Size 6 7 8 9 10 Length 30.5 cm (30 cm - 186) Thickness 0.35 mm	VITAL 185, 186 Internal finish Flocked External finish Embossed texture Size 6 7 8 9 10 Length 30.5 cm (30 cm - 186) Thickness 0.35 mm	Internal finish Flocked External finish Non-slip embossing Size 6 7 8 9 Length 32 cm Thickness 0.50 mm	VITAL 180 Internal finish Flocked External finish Non-slip embossing Size 6 7 8 9 10 Length 30 cm Thickness 0.40 mm	VITAL 181 Internal finish Flocked External finish Pebbled Size 7 8 9 Length 31 cm Thickness 0.40 mm
CAT 3 EN388:2016 4141X EN ISO 374-1:2016 TYPE B KMO		CAT 3 EN388:2016 4121X EN ISO 374-1:2016 TYPE A KLMNPT		CAT 3 EN388:2016 0010X EN ISO 374-1:2016 TYPE B KPT EN ISO 374-5:2016 VIRUS* (*VITAL 174 & 175)		CAT 3 EN 421 2010X (VITAL 520) EN ISO 374-5:2016 0010X (VITAL 540) EN 421 KMP (VITAL 520) EN ISO 374-1:2016 TYPE B KPT (VITAL 540)		CAT 3 EN 421 374-5:2016 EN ISO 374-1:2016 TYPE B KPT EN ISO 374-5:2016 0010X EN388:2016 1110X EN ISO 374-1:2016 TYPE B KPS		CAT 3 EN388:2016 1110X EN ISO 374-5:2016 1110X EN ISO 374-1:2016 TYPE B KPT	

CHEMICAL PROTECTION JERSETTE - ALTO RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK
Combination between contact time and the aggressiveness of the chemical being handled.
Choose the performance of your gloves based on the type of risk:

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

frequent contact

Pure or mixed chemical substances in frequent contact

prolonged contact (or immersion)

Pure or mixed chemical substances in frequent contact

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

short wear

Chlorinated interior finish

intermittent wear

Flocked interior finish

continuous wear

Fabric-lined interior finish

ultra-comfort wear

MAPA exclusive technology providing greater flexibility

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

CHEMICAL PROTECTION

HARPON - ALTO RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK

Combination between contact time and the aggressiveness of the chemical being handled.

Choose the performance of your gloves based on the type of risk:

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

frequent contact

Pure or mixed chemical substances in frequent contact

prolonged contact (or immersion)

Pure or mixed chemical substances in frequent contact

2 WEAR TIME

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

short wear

Chlorinated interior finish

intermittent wear

Flocked interior finish

continuous wear

Fabric-lined interior finish

ultra-comfort wear

MAPA exclusive technology providing greater flexibility

MATERIAL LATEX				
 frequent CONTACT		 prolonged CONTACT		
 continuous WEAR	 short WEAR	 intermittent WEAR		
<p>HARPON 321</p>  <p>Comfort and safety when gripping heavy, rough or slippery objects in highly-aggressive settings</p>	<p>ALTO 298</p>  <p>Good mechanical performance for long-lasting chemical protection</p>	<p>ALTO 285</p>  <p>Good mechanical performance for long-lasting chemical protection</p>	<p>ALTO 260</p>  <p>A good choice when dexterity and chemical protection is needed for extended wear</p>	<p>ALTO 299</p>  <p>Good mechanical performance for long-lasting chemical protection</p>
<p>HARPON 321 Internal finish Textile support External finish Reinforced grip Size 6 7 8 9 10 Length 32 cm Thickness 1.35 mm</p>	<p>HARPON 325 Internal finish Textile support External finish Reinforced grip Size 8 9 10 Length 37 cm Thickness 1.35 mm</p>	<p>Internal finish Chlorinated External finish Smooth Size 8 9 10 Length 42 cm Thickness 1 mm</p>	<p>Internal finish Chlorinated External finish Reinforced grip Size 8 9 10 Length 60 cm Thickness 1 mm</p>	<p>Internal finish Chlorinated External finish Non-slip embossing Size 7 8 9 10 11 Length 32 cm Thickness 0.80 mm</p>
CAT 3		CAT 3		
  	  	  	  	  
			 	

CHEMICAL PROTECTION ULTRANITRIL RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK
Combination between contact time and the aggressiveness of the chemical being handled.
Choose the performance of your gloves based on the type of risk:

🧪 splashes

Chemical substances diluted by immersion or splashes of aggressive substances

🧪🧪 frequent contact

Pure or mixed chemical substances in frequent contact

🧪🧪🧪 prolonged contact (or immersion)

Pure or mixed chemical substances in frequent contact

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

🕒 short wear

Chlorinated interior finish

🕒 intermittent wear

Flocked interior finish

🕒 continuous wear

Fabric-lined interior finish

🕒 ultra-comfort wear

MAPA exclusive technology providing greater flexibility

MATERIAL NITRILE								
🧪 splashes			🧪🧪 frequent CONTACT			🧪🧪🧪 prolonged CONTACT		
🕒 short WEAR			🕒 intermittent WEAR		🕒 ultra-comfort WEAR	🕒 short WEAR	🕒 inter-mittent WEAR	🕒 conti-nuous WEAR
ULTRANITRIL 472	ULTRANITRIL 487	ULTRANITRIL 454	ULTRANITRIL 485*	ULTRANITRIL 492*	ULTRANITRIL 381*	ULTRANITRIL 480*	ULTRANITRIL 493*	ULTRANITRIL 377
Fingertip precision for light chemical protection and food handling	Fingertip precision for light chemical protection	Precision dexterity in mildly aggressive environments, for those sensitive to natural latex	Good sensitivity for standard chemical protection	Good mechanical resistance and long-lasting chemical protection	Maximum comfort for standard chemical protection	Ultra-long chemical protection	Ultra-long chemical protection	Comfort and reinforced mechanical resistance for long-lasting chemical protection
Internal finish Easy donning treatment	Internal finish Easy donning treatment	Internal finish Flocked	Internal finish Flocked	Internal finish Flocked	Internal finish Mapa technology Textile support	Internal finish Chlorinated	Internal finish Flocked	Internal finish Textile support
External finish Pebbled	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Smooth
Size 6 7 8 9 10	Size 7 8 9 10	Size 6 7 8 9 10	Size 7 8 9 10	Size 492 6 7 8 9 10 11 Size 491 6 7 8 9 10	Size 7 8 9 10 11	Size 7 8 9 10	Size 8 9 10 11	Size 8 9 10
Length 31 cm	Length 32 cm	Length 31 cm	Length 31 cm	Length 32 cm Length 37 cm	Length 35.5 cm	Length 46 cm	Length 39 cm	Length 38 cm
Thickness 0.20 mm	Thickness 0.28 mm	Thickness 0.35 mm	Thickness 0.34 mm	Thickness 0.38 mm	Thickness 0.95 mm	Thickness 0.55 mm	Thickness 0.55 mm	Thickness 1.30 mm
CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3
EN ISO 374-1:2016 TYPE B EN388:2016 2101X JOT	EN ISO 374-1:2016 TYPE B EN388:2016 2101X JOT	EN ISO 374-1:2016 TYPE B EN388:2016 2000X KPT	EN ISO 374-1:2016 TYPE B EN388:2016 3101X JKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 3101X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 3111A JKLOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4102X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4102X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4122X AJKOPT
EN ISO 374-5: 2016 EN421	EN ISO 374-5: 2016	EN ISO 374-5: 2016	EN ISO 374-5: 2016 ISO 18889 G2	EN ISO 374-5: 2016 ISO 18889 G2	EN ISO 374-5: 2016 ISO 18889 G2 X1XXXX	EN ISO 374-5: 2016 ISO 18889 G2	EN ISO 374-5: 2016 ISO 18889 G2	EN ISO 374-5: 2016 ISO 18889 G2 X1XXXX

CHEMICAL PROTECTION ULTRANE0 RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK

Combination between contact time and the aggressiveness of the chemical being handled.

Choose the performance of your gloves based on the type of risk:

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

frequent contact

Pure or mixed chemical substances in frequent contact

prolonged contact (or immersion)

Pure or mixed chemical substances in frequent contact

2 WEAR TIME

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

short wear

Chlorinated interior finish

intermittent wear

Flocked interior finish

continuous wear

Fabric-lined interior finish

ultra-comfort wear

MAPA exclusive technology providing greater flexibility

MATERIAL POLYCHLOROPRENE						
splashes		frequent CONTACT			prolonged CONTACT	
intermittent WEAR	continuous WEAR	intermittent WEAR	continuous WEAR	ultra-comfort WEAR	short WEAR	continuous WEAR
ULTRANE0 401	ULTRANE0 340	ULTRANE0 420	ULTRANE0 341	ULTRANE0 382	ULTRANE0 407	ULTRANE0 339
Tactile sensitivity for light chemical protection	Comfort with light chemical protection	Suppleness and freedom of movement for standard chemical protection	Comfort with standard chemical protection	Maximum comfort for standard chemical protection	Ultra-high performance chemical protection	Comfort and high chemical protection
Internal finish Flocked	Internal finish Textile support	Internal finish Flocked	Internal finish Textile support	Internal finish Mapa technology Textile support	Internal finish Chlorinated	Internal finish Textile support
External finish Non-slip embossing	External finish Smooth	External finish Non-slip embossing	External finish Smooth	External finish Non-slip embossing	External finish Non-slip embossing	External finish Pebbled
Size 7 8 9 10	Size 7 8 9 10	420 Size 6 7 8 9 10	Size 8 9 10 11	Size 6 7 8 9 10	Size 9 10	Size 9 10
Length 31 cm	Length 38 cm	Length 31 cm	Length 38 cm	Length 35.5 cm	407 Length 35.5 cm	Length 35.5 cm
Thickness 0.55 mm	Thickness 1.30 mm	Length 41 cm	Thickness 1.45 mm	Thickness 0.90 mm	414 Length 45.5 cm	Thickness 1.35 mm
Thickness 0.75 mm		Thickness 0.75 mm			Thickness 0.75 mm	
CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3
EN388:2016 2110X	EN388:2016 2121X	EN388:2016 2121X	EN388:2016 2121X	EN388:2016 2121X	EN388:2016 2111X	EN388:2016 3121X
EN ISO 374-1:2016 TYPE A ALMNST	EN ISO 374-1:2016 TYPE A CLMNST	EN ISO 374-1:2016 TYPE A ALMNST	EN ISO 374-1:2016 TYPE A ACLMNS	EN ISO 374-1:2016 TYPE A ALMNST	EN ISO 374-1:2016 TYPE A ABCJLMNS	EN ISO 374-1:2016 TYPE A ABCJLMNS
EN ISO 374-5:2016 	EN407 X1XXXX	EN ISO 374-5:2016 	EN407 X1XXXX	EN407 X1XXXX	EN ISO 374-5:2016 	EN407 X1XXXX



CHEMICAL PROTECTION BUTOFLEX - FLUOTECH RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK
Combination between contact time and the aggressiveness of the chemical being handled.
Choose the performance of your gloves based on the type of risk:

- splashes**
Chemical substances diluted by immersion or splashes of aggressive substances
- frequent contact**
Pure or mixed chemical substances in frequent contact
- prolonged contact (or immersion)**
Pure or mixed chemical substances in frequent contact

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

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

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

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

CHEMICAL PROTECTION DISPOSABLE: SOLO RANGE

MAPA Professional offers a range of disposable gloves to meet your needs regardless of your working environment. The use of different polymers optimises the ergonomics and performance of the gloves: flexibility, sturdiness and comfort.



DISPOSABLE GLOVES

There are several advantages of disposable gloves:

- Freedom of movement
- Protection for hands and the products being handled
- Rolled cuff to prevent tearing while ensuring the glove stays in place on the arm

4 ADDITIONAL CRITERIA TO REFINE YOUR CHOICE

1 POLYMERS

PVC

Mechanical strength and price.

LATEX

Flexibility and comfort.

NITRILE (next page)

Mechanical resistance and resistance to oils.

TRIPOLYMER (next page)

Flexibility, mechanical strength and chemical resistance to splashes.

2 COMFORT AND FLEXIBILITY

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

POWDERED

Better absorption of perspiration.

CHLORINATED

Easy donning and no powder on hands.

EASY DONNING TREATMENT

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

Reduces the allergy risk of natural latex gloves.

3 COLOUR

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

4 DIMENSIONS

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

POLYMER PVC/VINYL	POLYMER NATURAL LATEX		
	COMFORT NON POWDERED		COMFORT POWDERED
<p>SOLO 990</p> <p>The best value for precise movements</p>	<p>SOLO 998</p> <p>Optimal flexibility and dexterity</p>	<p>SOLO PLUS 995</p> <p>Optimal flexibility and dexterity</p>	<p>SOLO 992</p> <p>Optimal flexibility and dexterity</p>
<p>External finish Smooth</p> <p>Size 6 7 8 9</p> <p>Length 24 cm</p> <p>Thickness 0.08 mm</p>	<p>External finish Smooth with pebbled fingertips</p> <p>Size 6 7 8 9</p> <p>Length 30 cm</p> <p>Thickness 0.10 mm</p>	<p>External finish Smooth with pebbled fingertips</p> <p>Size 6 7 8 9</p> <p>Length 24.5 cm</p> <p>Thickness 0.10 mm</p>	<p>External finish Smooth</p> <p>Size 6 7 8 9</p> <p>Length 24 cm</p> <p>Thickness 0.10 mm</p>
<p>CAT 3</p> <p>EN ISO 374-1:2016 TYPE C EN ISO 374-5:2016 ISO 18889 G1 VIRUS</p>	<p>CAT 3</p> <p>EN ISO 374-1:2016 TYPE C EN ISO 374-5:2016 VIRUS</p>	<p>CAT 3</p> <p>EN ISO 374-1:2016 TYPE C EN ISO 374-5:2016</p>	<p>CAT 3</p> <p>EN ISO 374-1:2016 TYPE C EN ISO 374-5:2016</p>

CHEMICAL PROTECTION DISPOSABLE: SOLO RANGE

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DISPOSABLE GLOVES

There are several advantages of disposable gloves:

- Freedom of movement
- Protection for hands and the products being handled
- Rolled cuff to prevent tearing while ensuring the glove stays in place on the arm

4 ADDITIONAL CRITERIA TO REFINE YOUR CHOICE

1 POLYMERS

PVC (previous page)
Mechanical strength and price.

LATEX (previous page)
Flexibility and comfort.

NITRILE
Mechanical resistance and resistance to oils.

TRIPOLYMER
Flexibility, mechanical strength and chemical resistance to splashes.

2 COMFORT AND FLEXIBILITY

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

POWDERED
Better absorption of perspiration.

CHLORINATED
Easy donning and no powder on hands.























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

3 COLOUR

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

4 DIMENSIONS

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

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

MECHANICAL PROTECTION

ULTRANE RANGE

The Mapa Professional Handling Protection range meets requirements for comfort and protection of the hands when carrying out a wide variety of work.



PRECISION WORK

The Ultrane range represents all that is needed for precision work requiring a high-level of dexterity while maintaining a sense of touch when handling small or delicate parts.

- Ease of movement (Comfort)
- Service life suitable for daily use
- Suitable for different environments (dry, wet, oily, greasy, dirty, etc.)
- Superior performance in slippery settings for certain products

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

- ☐ **dry** and **relatively clean** environments
- ☑ **oily** and **very dirty** environments

2 SERVICE LIFE

The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.

- ⌚ **short** service life
- ⌚ **long** service life
- ⌚ **high-performance** service life

PRECISION WORK

ENVIRONMENT
☐ **dry and relatively clean**

⌚ **short**
SERVICE LIFE

⌚ **long**
SERVICE LIFE

ULTRANE 548



Optimal dexterity and sensitivity for light protection

ULTRANE 648



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

ULTRANE 524



Protection of electronic device from ElectroStatic Discharge (ESD)

ULTRANE 551



Unbeatable for fingertip precision

ULTRANE 510



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

Internal finish
Seamless knitted
Textile support
Gauge 13



External finish
Polyurethane coating on palm and fingers
Knitted wrist

Size
Ultrane 548 6 7 8 9 10 11
Ultrane 549 6 7 8 9 10

Length
22-27 cm

Internal finish
Seamless Textile support
Gauge 13

External finish
Ventilated back
Polyurethane coating on palm and fingers
Knitted wrist

Size
6 7 8 9 10 11

Length
22-28 cm

Internal finish
Seamless textile with conductive fiber
Gauge 18

External finish
Polyurethane coating on palm and fingers
Knitted wrist

Size
6 7 8 9 10 11

Length
22-27 cm

Washable x1

Internal finish
Seamless knitted
Textile support
Gauge 13



External finish
Polyurethane coating on palm and fingers
Knitted wrist

Size
Ultrane 551 6 7 8 9 10 11
Ultrane 550 6 7 8 9 10

Length
22-27 cm

Internal finish
Seamless knitted Textile support
Gauge 13

External finish
Polymer coating with aqueous base on the palm and fingers
Knitted wrist

Size
6 7 8 9 10 11

Length
22-27 cm

Washable x1

OEKO-TEX®
STANDARD 100
CQ 979/2 IFTH

OEKO-TEX®
STANDARD 100
CQ 979/2 IFTH

CAT 2
EN388:2016



3121X

CAT 2
EN388:2016



3121X

CAT 2
EN388:2016 EN 16350



2X20A



CAT 2
EN388:2016



4131X

CAT 3
EN388:2016



4131X



MECHANICAL PROTECTION ULTRANE RANGE

The Mapa Professional Handling Protection range meets requirements for comfort and protection of the hands when carrying out a wide variety of work.



PRECISION WORK

The Ultrane range represents all that is needed for precision work requiring a high-level of dexterity while maintaining a sense of touch when handling small or delicate parts.

- Ease of movement (Comfort)
- Service life suitable for daily use
- Suitable for different environments (dry, wet, oily, greasy, dirty, etc.)
- Superior performance in slippery settings for certain products

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

- ☐ **dry** and **relatively clean** environments
- ☑ **oily** and **very dirty** environments

2 SERVICE LIFE

The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.

- ⌚ **short** service life
- ⌚ **long** service life
- ⌚ **high-performance** service life

PRECISION WORK

ENVIRONMENT
dry and relatively clean

ENVIRONMENT
oily and very dirty

high-performance
SERVICE LIFE

ULTRANE 527	ULTRANE 541	ULTRANE 544	ULTRANE 553	ULTRANE 500*
<p>RESICOMFORT TECHNOLOGY PATENTED TECHNOLOGY</p>	<p>RESICOMFORT TECHNOLOGY Touch Screen</p>	<p>Touch Screen</p>		<p>GRIP & PROOF TECHNOLOGY ULTRANE 525* ULTRANE 526*</p>
<p>Detachable fingers glove to avoid hand risk injuries. MAPA Patented Comfort suppleness and high dexterity without any compromise on breathability and durability</p>	<p>Comfort suppleness and high dexterity without any compromise on breathability and durability</p>	<p>Protection of electronic device from ElectroStatic Discharge (ESD)</p>	<p>Unbeatable for fingertip precision in dirty environments</p>	<p>Assured grip, skin protected and excellent dexterity in lightly oily/dirty environments</p>
<p>Internal finish Seamless textile with specific knitting technology patented by MAPA PROFESSIONAL Gauge 15</p> <p>External finish Foam nitrile coating with sandy finish on palm and fingers Knitted wrist</p> <p>Size 6 7 8 9 10 11</p> <p>Length 22-27 cm</p> <p>Washable x1</p>	<p>Internal finish Seamless knitted textile support in composite and HDPE fibres Gauge 15</p> <p>External finish Foam nitrile coating with sandy finish on palm and fingers Knitted wrist</p> <p>Size 6 7 8 9 10 11</p> <p>Length 22-27 cm</p> <p>Washable x1</p>	<p>Internal finish Seamless textile with conductive fiber Gauge 15</p> <p>External finish Foam nitrile conductive coating on palm and fingers Knitted wrist</p> <p>Size 6 7 8 9 10 11</p> <p>Length 22-27 cm</p> <p>Washable x1</p>	<p>Internal finish Seamless knitted Textile support Gauge 13</p> <p>External finish Nitrile coating on palm and fingers Knitted wrist</p> <p>Size 6 7 8 9 10</p> <p>Length 22-26 cm</p>	<p>Internal finish Seamless knitted Textile support Gauge 13</p> <p>External finish Double layer coating: Nitrile Smooth - Sandy Nitrile ULtrane 500 palm and fingers ULtrane 525 3/4 coating ULtrane 526 complete coating</p> <p>Size ULtrane 500 6 7 8 9 10 11 ULtrane 525/526 7 8 9 10 11</p> <p>Length 23-28 cm</p> <p>Washable x3</p>
<p>OEKO-TEX® STANDARD 100 CQ 979/2 IFTH Tested for harmful substances. www.oeko-tex.com/standard100</p>	<p>OEKO-TEX® STANDARD 100 CQ 979/2 IFTH Tested for harmful substances. www.oeko-tex.com/standard100</p>	<p>OEKO-TEX® STANDARD 100 CQ 979/2 IFTH Tested for harmful substances. www.oeko-tex.com/standard100</p>	<p>OEKO-TEX® STANDARD 100 CQ 979/2 IFTH Tested for harmful substances. www.oeko-tex.com/standard100</p>	<p>OEKO-TEX® STANDARD 100 CQ 979/2 IFTH Tested for harmful substances. www.oeko-tex.com/standard100</p>
<p>CAT 2</p> <p>EN388:2016 31X1A EN407 X1XXXX</p>	<p>CAT 2</p> <p>EN388:2016 4121A EN407 X1XXXX</p>	<p>CAT 2</p> <p>EN388:2016 4121A EN 16350</p>	<p>CAT 2</p> <p>EN388:2016 4121X</p>	<p>CAT 3</p> <p>EN388:2016 4121A ISO 18889 GR</p>

MECHANICAL PROTECTION TITAN RANGE



HEAVY-DUTY WORK

The TITAN/HARPON range is the shell which protects the hand from heavy objects being handled

- Easy to fit and remove gloves
- Ease of movement and gripping
- Service life suitable for daily use
- Suitable for different environments (dry, wet, oily, greasy, dirty, etc.)
- Superior performance in slippery settings for certain products

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

- ☐ **dry** and **relatively clean** environments
- 🛢️ **oily** and **very dirty** environments
- 💧 **wet** environments

2 SERVICE LIFE

The service life of a glove for heavy-duty work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.

- 🕒 **short** service life
- 🕒 **long** service life
- 🕒 **high-performance** service life

HEAVY-DUTY WORK



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



MECHANICAL PROTECTION

TITAN - HARPON RANGE



HEAVY-DUTY WORK

The TITAN/HARPON range is the shell which protects the hand from heavy objects being handled

- Easy to fit and remove gloves
- Ease of movement and gripping
- Service life suitable for daily use
- Suitable for different environments (dry, wet, oily, greasy, dirty, etc.)
- Superior performance in slippery settings for certain products

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

- ☐ **dry** and **relatively clean** environments
- 💧 **oily** and **very dirty** environments
- 💧 **wet** environments

2 SERVICE LIFE

The service life of a glove for heavy-duty work is directly linked to the thickness of the polymer layer covering the fabric and to the adhesion and nature of the fabric in a given environment.

- ⌚ **short** service life
- ⌚ **long** service life
- ⌚ **high-performance** service life

HEAVY-DUTY WORK



wet

ENVIRONMENTS



oily and very dirty

ENVIRONMENTS



short

SERVICE LIFE



long

SERVICE LIFE



high-performance

SERVICE LIFE

TITAN 328



Flexibility and grip for common handling tasks

HARPON 319



Comfort, reinforced safety and excellent grip in wet environments

HARPON 330



HARPON 319

Internal finish
Textile support

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

Size
7 8 9

Length
25-27 cm

HARPON 330

Internal finish
Textile support

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

Size
6 7 8 9

Length
25-27 cm

TITAN 850



Shock absorption, durability and comfort for heavy handling work

Internal finish
Seamless knitted textile support
Gauge 13

External finish
Nitrile coating on the palm and fingers
Double layer coating: Nitrile Smooth - Sandy Nitrile

Size
7 8 9 10 11

Length
23.5-27.5 cm

CAT 2

EN388:2016



2142X

EN407



X2XXXX

CAT 2

EN388:2016



3131X

EN407



X1XXXX

CAT 2

EN388:2016



4132XP



MECHANICAL PROTECTION KRYTECH RANGE

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



PRECISION WORK

Select your cut protection gloves according to your specific needs.

For precision work, you need gloves that act like a second skin, protecting against cuts but maintaining excellent dexterity.

IMPORTANT

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

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

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

2 RISK

The higher the level of performance, the greater the glove's resistance to the combined effects of the sharpness of the object's cutting edge and the pressure applied.

- low** risk - ISO B
- moderate** risk - ISO C
- high** risk - ISO D
- very high** risk - ISO E

3 SERVICE LIFE

The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.

- short** service life
- long** service life
- high-performance** service life

dry and relatively clean
ENVIRONMENT

low
RISK

short
SERVICE LIFE

long
SERVICE LIFE

high-performance
SERVICE LIFE

KRYTECH 579		KRYTECH 584		KRYTECH 557		KRYTECH 558		KRYTECH 563		KRYTECH 588		KRYTECH 642			
Moderate protection for very precise handling in reasonably clean environments		Moderate protection for very precise handling in reasonably clean environments		Moderate protection with crotch reinforcement for precise handling in reasonably clean environments		Moderate protection with crotch reinforcement for precise handling in reasonably clean environments		Moderate protection and durability for precise handling in reasonably clean environments		Cutting, grip and dexterity for dry and slightly oily environments		Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens			
Internal finish Seamless knitted support manufactured from HDPE fibres Gauge 13		Internal finish Seamless knitted support manufactured from HDPE fibres Gauge 13		Internal finish Seamless knitted support manufactured from HDPE fibres Gauge 13		Internal finish Seamless knitted support manufactured from HDPE fibres Gauge 13		Internal finish Seamless knitted support manufactured from HDPE fibres Gauge 13		Internal finish Seamless knitted support manufactured from HDPE fibres Gauge 13		Internal finish Seamless knitted textile support in composite and HDPE fibres Gauge 15			
External finish Polyurethane coating on palm and fingers Knitted wrist		External finish Polyurethane coating on palm and fingers Knitted wrist		External finish Polyurethane coating on palm and fingers Knitted wrist		External finish Polyurethane coating on palm and fingers Knitted wrist		External finish Nitrile coating on palm and fingertips Knitted wrist		External finish Double layer coating: Nitrile Smooth - Sandy Nitrile Knitted wrist		External finish Foam nitrile coating with sandy finish on palm and fingers Knitted wrist			
Size 6 7 8 9 10 11		Size 6 7 8 9 10 11		Size 6 7 8 9 10 11		Size 6 7 8 9 10 11		Size 7 8 9 10 11		Size 7 8 9 10 11		Size 6 7 8 9 10 11			
Length 22-27 cm		Length 27-32 cm		Length 22-27 cm		Length 26-31 cm		Length 23-27 cm		Length 23-28 cm		Length 22-27 cm			
Washable x5		Washable x5		Washable x5		Washable x5		Washable x1		Washable x1		Washable x1			
CAT 2 EN388:2016 4342B ISO 13997: 5.3 N		CAT 2 EN388:2016 4342B ISO 13997: 5.3 N		CAT 2 EN388:2016 4343B ISO 13997: 5.3 N		CAT 2 EN388:2016 4343B ISO 13997: 5.3 N		CAT 2 EN388:2016 4343B ISO 13997: 6.5 N		CAT 2 EN388:2016 4343B ISO 13997: 5.9 N		CAT 2 EN388:2016 4X42B ISO 13997: 5,7 N		EN407 X1XXXX	

MECHANICAL PROTECTION

KRYTECH RANGE

PRECISION WORK

Select your cut protection gloves according to your specific needs.
For precision work, you need gloves that act like a second skin, protecting against cuts but maintaining excellent dexterity.



HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

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

2 RISK

The higher the level of performance, the greater the glove's resistance to the combined effects of the sharpness of the object's cutting edge and the pressure applied.

- low** risk - ISO B
- moderate** risk - ISO C
- high** risk - ISO D
- very high** risk - ISO E

3 SERVICE LIFE

The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.

- short** service life
- long** service life
- high-performance** service life

dry and relatively clean
ENVIRONMENT

moderate
RISK

short
SERVICE LIFE

long
SERVICE LIFE

high-performance
SERVICE LIFE

KRYTECH 601



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

KRYTECH 610



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

KRYTECH 643



RESICOMFORT
TECHNOLOGY



Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability.
Suitable for Touch Screens

Internal finish
Seamless knitted textile support in composite and HDPE fibres
Gauge 13

External finish
Without coating

Size
7 8 9 10 11

Length
23-28 cm

Washable x1



CAT 2
EN388:2016



1X4XC

ISO 13997: 14.2 N

KRYTECH 610

Internal finish
Seamless knitted textile support in composite and HDPE fibres
Gauge 13

External finish
Polyurethane coating on the palm and fingers
Knitted wrist

Size
6 7 8 9 10 11

Length
24-29 cm

Washable x3



CAT 2
EN388:2016



4X43C

ISO 13997: 14.9 N

KRYTECH 810

Internal finish
Seamless textile support from HDPE fibres
Gauge 13

External finish
Polyurethane coating on the palm and fingers and nitrile crotch reinforcement between thumb and index
Knitted wrist

Size
6 7 8 9 10 11

Length
23-29 cm

Internal finish
Seamless knitted textile support in composite and HDPE fibres
Gauge 15

External finish
Foam nitrile coating with sandy finish on palm and fingers
Knitted wrist

Size
6 7 8 9 10 11

Length
22-27 cm

Washable x1



CAT 2
EN388:2016



4X42C

ISO 13997: 13,5N



X1XXXX



MECHANICAL PROTECTION

KRYTECH RANGE



PRECISION WORK

Select your cut protection gloves according to your specific needs. For precision work, you need gloves that act like a second skin, protecting against cuts but maintaining excellent dexterity.

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

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

2 RISK

The higher the level of performance, the greater the glove's resistance to the combined effects of the sharpness of the object's cutting edge and the pressure applied.

- low** risk - ISO B
- moderate** risk - ISO C
- high** risk - ISO D
- very high** risk - ISO E

3 SERVICE LIFE

The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.

- short** service life
- long** service life
- high-performance** service life

dry and relatively clean ENVIRONMENT						
high RISK			very high RISK			
long SERVICE LIFE			high-performance SERVICE LIFE			
KRYTECH 586 High-level protection for precise handling in reasonably clean environments	KRYTECH 615 High cut protection with a maximum comfort. A seamless plaited glove for very good fit, dexterity and flexibility	KRYTECH 622 Very high-level cutting protection, comfortable thanks to excellent adjustment and good compatibility with touch screens	KRYTECH 644 Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens	KRYTECH 645 Comfort suppleness and high dexterity without any compromise on cut protection, breathability and durability. Suitable for Touch Screens		
Internal finish Seamless knitted support manufactured from HDPE fibres Gauge 13 External finish Polyurethane on palm and fingers Knitted wrist Size 6 7 8 9 10 11 Length 24-30 cm Washable x3	<table border="0"> <tr> <td> KRYTECH 615 Internal finish Seamless knitted textile support in composite and HDPE fibres Gauge 13 External finish Polyurethane coating on the palm and fingers Knitted wrist Size 6 7 8 9 10 11 Length 23.5-30 cm Washable x3 </td> <td> KRYTECH 815 Internal finish Seamless textile support from HDPE fibres Gauge 13 External finish Polyurethane coating on the palm and fingers and nitrile crotch reinforcement between thumb and index Size 6 7 8 9 10 11 Length 23-30 cm Washable x3 </td> </tr> </table>	KRYTECH 615 Internal finish Seamless knitted textile support in composite and HDPE fibres Gauge 13 External finish Polyurethane coating on the palm and fingers Knitted wrist Size 6 7 8 9 10 11 Length 23.5-30 cm Washable x3	KRYTECH 815 Internal finish Seamless textile support from HDPE fibres Gauge 13 External finish Polyurethane coating on the palm and fingers and nitrile crotch reinforcement between thumb and index Size 6 7 8 9 10 11 Length 23-30 cm Washable x3	Internal finish Seamless knitted textile support in composite and HDPE fibres Gauge 13 External finish Polyurethane coating on the palm and fingers Knitted wrist Size 6 7 8 9 10 11 Length 24-29 cm Washable x5	Internal finish Seamless knitted textile support in composite and HDPE fibres Gauge 15 External finish Foam nitrile coating with sandy finish on palm and fingers Knitted wrist Size 6 7 8 9 10 11 Length 22-27 cm Washable x1	Internal finish Seamless knitted textile support in composite and HDPE fibres. Gauge 15 External finish Foam nitrile coating with sandy finish on palm and fingers Knitted wrist Size 6 7 8 9 10 11 Length 22-27 cm Washable x1
KRYTECH 615 Internal finish Seamless knitted textile support in composite and HDPE fibres Gauge 13 External finish Polyurethane coating on the palm and fingers Knitted wrist Size 6 7 8 9 10 11 Length 23.5-30 cm Washable x3	KRYTECH 815 Internal finish Seamless textile support from HDPE fibres Gauge 13 External finish Polyurethane coating on the palm and fingers and nitrile crotch reinforcement between thumb and index Size 6 7 8 9 10 11 Length 23-30 cm Washable x3					
 CAT 2 EN388:2016 4X43D ISO 13997: 18.6 N	 CAT 2 EN388:2016 4X43D ISO 13997: 20 N	 CAT 2 EN388:2016 4X43E ISO 13997: 29.5 N	 CAT 2 EN388:2016 EN407 4X43D X1XXXX ISO 13997: 16 N	 CAT 2 EN388:2016 EN407 4X43E X1XXXX ISO 13997: 29.5 N		

MECHANICAL PROTECTION

KRYTECH RANGE

PRECISION WORK

Select your cut protection gloves according to your specific needs.
For precision work, you need gloves that act like a second skin, protecting against cuts but maintaining excellent dexterity.



HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

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

2 RISK

The higher the level of performance, the greater the glove's resistance to the combined effects of the sharpness of the object's cutting edge and the pressure applied.

- low** risk - ISO B
- moderate** risk - ISO C
- high** risk - ISO D
- very high** risk - ISO E

3 SERVICE LIFE

The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.

- short** service life
- long** service life
- high-performance** service life

oily and very dirty ENVIRONMENTS



low
RISK



moderate
RISK



high
RISK

high-performance SERVICE LIFE

KRYTECH 580*	KRYTECH 599*	KRYTECH 600*	KRYTECH 585	KRYTECH 582
Moderate protection, grip and skin protected for precise handling slightly oily and dirty environments	Moderate protection against cutting, grip and skin protected for complex handling operations in oily environment	Moderate protection against cutting, grip and skin protected for complex handling operations in very oily environment	Enhanced safety, comfort and durability with Grip & Proof Technology	High-level cutting protection for complex handling operations in oily environment
Internal finish Seamless knitted textile support of HDPE fibre Gauge 13	Internal finish Seamless knitted textile support of HDPE fibre Gauge 13	Internal finish Seamless knitted textile support of HDPE fibre Gauge 13	Internal finish Seamless knitted textile support made from composite fibres and HDPE fibres Gauge 15	Internal finish Seamless knitted textile support made from composite fibres and HDPE fibres Gauge 13
External finish Double layer coating: Nitrile Smooth - Sandy Nitrile Knitted wrist	External finish Double layer coating: Nitrile Smooth - Sandy Nitrile Knitted wrist	External finish Double layer coating: Nitrile Smooth - Sandy Nitrile Knitted wrist	External finish 3/4 Grip&Proof nitrile coating Double layer coating: Nitrile Smooth - Sandy Nitrile Knitted wrist	External finish 3/4 nitrile coating Double layer coating: Nitrile Smooth - Sandy Nitrile Knitted wrist
Size 6 7 8 9 10 11	Size 7 8 9 10 11	Size 7 8 9 10	Size 7 8 9 10 11	Size 7 8 9 10 11
Length 23-28 cm	Length 23-28 cm	Length 23-28 cm	Length 24-29 cm	Length 23-28 cm
CAT 3	CAT 3	CAT 3	CAT 2	CAT 2
EN388:2016 4342B	EN388:2016 4342B	EN388:2016 4342B	EN388:2016 4X42C	EN388:2016 4X43D
EN407 X1XXXX	EN407 X1XXXX	EN407 X1XXXX		
ISO 18889 GR	ISO 18889 GR	ISO 18889 GR		
ISO 13997: 6 N	ISO 13997: 6 N	ISO 13997: 6 N	ISO 13997: 13 N	ISO 13997: 18 N



MECHANICAL PROTECTION

KRYTECH RANGE






PRECISION WORK

Cut protection cuffs with thumb hole for improved comfort and dexterity and wearer's safety.

HOW CAN YOU REFINE YOUR CHOICE?





1 ENVIRONMENT

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

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

2 RISK

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

-  **low** risk - ISO B
-  **moderate** risk - ISO C
-  **high** risk - ISO D
-  **very high** risk - ISO E

 **for all environments**
ENVIRONMENTS

 **low**
RISK

 **high**
RISK

KRYTECH 532



Moderate protection reinforcement made from HDPE, ultra thin thumb hole in polyamide

Length
45 cm

Width
140 mm

Washable
x5

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
CQ 979/2 1P/TH
Tested for harmful substances.
www.oeko-tex.com/standard100

CAT 2
EN388:2016



334XB

ISO 13997: 5.3 N

KRYTECH 532 S



Moderate protection reinforcement made from HDPE, ultra thin thumb hole in polyamide

Length
45 cm

Width
95 mm

Washable
x5

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
CQ 979/2 1P/TH
Tested for harmful substances.
www.oeko-tex.com/standard100

CAT 2
EN388:2016



334XB

ISO 13997: 5.3 N

KRYTECH 538



High-performance protection from HDPE and fiberglass, polyamide ultra-thin thumb loop

Length
60 cm

Width
150 mm

Washable
x5

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
CQ 979/2 1P/TH
Tested for harmful substances.
www.oeko-tex.com/standard100

CAT 2
EN388:2016



4X4XD

ISO 13997: 17.8 N



MECHANICAL PROTECTION

KRYTECH RANGE

HEAVY HANDLING WORK

Select your cut protection gloves according to your specific needs.

For heavy handling work, your gloves must protect against cuts and impacts but also need to be tough and long lasting.



HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

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

2 RISK

The higher the level of performance, the greater the glove's resistance to the combined effects of the sharpness of the object's cutting edge and the pressure applied.

- low** risk - ISO B
- moderate** risk - ISO C
- high** risk - ISO D
- very high** risk - ISO E

3 SERVICE LIFE

The service life of a glove for precision work is directly linked to the thickness of the polymer layer covering the fabric and the nature of the fabric, in a given environment.

- short** service life
- long** service life
- high-performance** service life

dry and relatively clean ENVIRONMENT		wet ENVIRONMENTS		oily and very dirty ENVIRONMENTS		
high RISK	very high RISK	high RISK	low RISK	high RISK		
high-performance SERVICE LIFE	short SERVICE LIFE	high-performance SERVICE LIFE	high-performance SERVICE LIFE			
KRYTECH 836	KRYTECH 838	KRYTECH 832	KRYTECH 840	KRYTECH 380	KRYTECH 395	KRYTECH 851
Excellent cutting protection and resistance to wear with optimum dexterity and comfort	Reinforced cut protection for the food industry. Ambidextrous	High-level protection for handling heavy, sharp objects in dry and relatively clean environments	High-level protection for handling heavy or sharp objects in wet environments	Moderate protection against cutting, grip and skin protected for heavy handling operations in oily/dirty environment	Lasting chemical protection and cut protection combined	High-level cutting protection, shock absorption, durability and comfort for heavy handling work
Internal finish Seamless knitted textile support made from HDPE and composite fibres Gauge 13	Internal finish Seamless knitted lining made from HDPE fibres Gauge 10	Internal finish Seamless knitted textile support made from composite fibres Gauge 10	Internal finish Seamless knitted textile support made from composite fibres Gauge 10	Internal finish Seamless knitted textile support made from cotton and HDPE fibres Gauge 13	Internal finish Multi-layer technology: combination of high strength and nitrile fibres	Internal finish Seamless knitted textile support made from HDPE and composite fibres
External finish Leather covering on palm with thumb/forefinger reinforcements Knitted wrist	Size 6 7 8 9 10 11 Length 34 cm Washable x20	External finish Leather covering on palm with thumb/forefinger reinforcements Knitted wrist	External finish Latex palm and fingers/ Non-slip embossing Knitted wrist	External finish 3/4 double layer coating: Smooth nitrile - Roughened nitrile Safety cuff	External finish Textile support	External finish Double layer coating: Nitrile Smooth - Sandy Nitrile Safety cuff Gauge 13
Size 7 8 9 10 11 Length 27-32 cm Washable x5		Size 8 9 10 11 Length 23-26 cm Washable x5	Size 7 8 9 10 Length 23-26 cm	Size 7 8 9 10 Length 25-27 cm	Size 8 9 10 Length 32 cm	Size 7 8 9 10 11 Length 25-28 cm
CAT 2	CAT 2	CAT 2	CAT 2	CAT 2	CAT 3	CAT 2
EN388:2016 4X43D EN407 X1XXXX ISO 13997: 17.2 N	EN388:2016 2X4XE ISO 13997: 24.2 N	EN388:2016 4X43E EN407 X1XXXX ISO 13997: 24.3 N	EN388:2016 3X43D EN407 X2XXXX ISO 13997: 19.8 N	EN388:2016 4344B EN407 X1XXXX ISO 13997: 7.6 N	EN388:2016 4X43D EN407 X1XXXX ISO 13997: 20.4 N EN ISO 374-1:2016 TYPE B JKOPT EN ISO 374-5:2016	EN388:2016 4X43DP ISO 13997: 17.6 N

THERMAL PROTECTION

The Mapa Professional thermal protective glove range provides excellent comfort and protection to hands whenever work situations require thermal protection in a hot or cold environment.



HOW CAN YOU REFINE YOUR CHOICE?

1 TEMPERATURE

According to the temperature of the objects to be handled.

- Temperature - **10°C**
- Temperature **up to 150°C**
- Temperature **above 150°C**

2 ENVIRONMENT

Depending on the environment in which you are working.

- wet** environments
- dry** environments
- moderately oily** environments
- chemical** environments

3 USAGE DURATION

For cold, this relates to the intrinsic quality of the coating material. For heat depends on the contact time with the part at a given temperature.

- | | |
|--------------------------------------|---------------------------|
| SERVICE LIFE (COLD) | CONTACT TIME (HOT) |
| long service life | short contact |
| high-performance service life | prolonged contact |

TEMPERATURE -10°C		TEMPERATURE up to 150°C		TEMPERATURE above 150°C	
wet ENVIRONMENTS dry ENVIRONMENTS moderately oily ENVIRONMENTS		dry ENVIRONMENTS moderately oily ENVIRONMENTS		wet ENVIRONMENTS chemical ENVIRONMENTS moderately oily ENVIRONMENTS	
long SERVICE LIFE high-performance SERVICE LIFE		CONTACT TIME short-term 80°C 70s 100°C 30s 125°C 20s		CONTACT TIME prolonged 80°C 1min50s 100°C 1min 125°C 38s	
CONTACT TIME prolonged 80°C 1min50s 100°C 1min 125°C 38s		CONTACT TIME short-term 100°C 37s 150°C 16s 175°C 12s			
TEMPICE 770 Thermal insulation 100% sealed for protecting against intense contact cold	TEMPICE 700 Dexterity and comfort for optimised thermal protection and durability	TEMPDEX 710 High dexterity and thermal protection	TEMPDEX 720 Dexterity and resistance to cuts for optimised thermal protection	TEMPCOOK 476 Hygienic with high-temperature thermal protection 100% liquidproof	TEMPTEC 332 Effective thermal insulation and multi-purpose chemical resistance
Internal finish Jersey textile support lined with a woollen sleeve External finish Pebbled PVC coating Size 9 10 Length 30 cm	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 and fingers Knitted wrist Size 7 8 9 10 Length 24-27 cm Washable x5	Internal finish Seamless knitted textile support Gauge 13 External finish Nitrile coating and dot embossing on palm and finger Knitted wrist Size 7 9 11 Length 24-28 cm	Internal finish Knitted seamless textile support made from aramid fibres. Gauge 10 External finish Nitrile coating and dot embossing on palm and finger Knitted wrist Size 7 9 11 Length 24-28 cm	Internal finish Knitted thermal protection External finish Non-slip embossing Nitrile coating Size 7(S) 9(M) 10(L) Length 45 cm	Internal finish Knitted thermal protection External finish Pebbled Neoprene coating Size 8 9 10 Length 35,5 cm
CAT 3 EN388:2016 4221X EN ISO 374-1:2016 TYPE B KMO EN511 121 EN ISO 374-5:2016 EN388:2016 3222X EN511 02X		CAT 2 EN388:2016 4111X EN407 X1XXXX EN388:2016 4343B EN407 X2XXXX ISO 13997: 7N		CAT 3 EN388:2016 4443D EN511 111 EN407 X2XXXX EN ISO 374-1:2016 TYPE A AFGJOT EN ISO 374-5:2016 EN388:2016 2212X EN511 111 EN ISO 374-1:2016 TYPE A ACLMNS EN407 X2XXXX	

FOOD EXPERT RANGE

Compliance with hygiene rules is an essential requirement in the food industry. The industry invests to continuously improve the safety of its customers, as producers alone are legally liable for the sanitary quality of their products.

European regulations define precisely the food contact tests to be performed for each type of food. So, a glove can be approved for the handling of certain foodstuffs and not others.

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

Through its dedicated food industry selection guide, Mapa Professional aims to help end users check the food compliance of each glove according to the foods they actually handle, strictly in line with European and French regulations.

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

These tests are available on our Mapa Professional website

mapa-pro.com



SELECT THE RIGHT GLOVE FOR YOU ACCORDING TO THE FOOD HANDLED

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

THEN CHECK YOUR GLOVE FOR USE AND COMFORT

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

FOOD CONTACT: YOUR SELECTION GUIDE

SELECT THE RIGHT GLOVE

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

STEP 1	YOU ARE HANDLING	Page 49			Page 51				Page 53				
		Disposable		Thermal Protection	Cut Protection	Liquidproof gloves							
		Natural latex	Nitrile			Waterproof			Completely liquidproof				
		SOLO 988	SOLO 995	SOLO 967	TEMPCOOK 476	KRYTECH 838	VITAL 177	VITAL 165	JERSETTE 308	HARPON 326	ULTRANITRIL 472	ULTRANITRIL 475	ULTRANITRIL 495
DRINKS	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol. clear												
	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol. cloudy												
	Alcoholic beverages of an alcoholic strength of between 6% vol. and 20%.												
CEREALS, STARCHES, SUGARS, CHOCOLATES AND DERIVED PRODUCTS	Alcoholic beverages of an alcoholic strength above 20%.												
	Starches, cereals, flour, meal, dry pasta e.g. macaroni, spaghetti and similar products and fresh pasta												
	Biscuits, pastry, cakes and other bakery products, dry, sugar and confectionery products in solid form; without fatty substances												
	Biscuits, pastry, cakes and other bakery products and confectionery products in solid form; with fatty substances, chocolate, substitutes and products coated												
	Confectionery products in moist past form												
	Molasses, sugar syrups, honey												
FRUIT, VEGETABLES AND DERIVATIVES	Confectionery products with fatty substances on the surface												
	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												
FATS AND OILS	Preserved fruits in an oily medium												
	Nuts in paste or cream form												
ANIMAL PRODUCTS AND EGGS	Animal or vegetable, natural or treated												
	Water emulsions in oil (margarine, butter)												
	Crustaceans and molluscs not naturally protected by their shells, preserved fish in an aqueous medium												
	Crustaceans and molluscs not naturally protected by their shells, preserved fish in an oily medium, marinated meat products in an oily medium												
	Crustaceans and molluscs fresh within the shell												
	Fresh fish, chilled, salted, smoked or in the form of paste												
	Meat of all zoological species, fresh, chilled, salted, smoked or in the form of paste, creams												
	Preserved and part-preserved meat in an aqueous medium												
DAIRY PRODUCTS	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												
DRESSINGS	Whole cheeses with non-edible form												
	Processed cheese (soft cheese), preserved cheese in an aqueous medium (mozzarella...)												
	Preserved cheese in an oily medium												
	Milk powder including infant formula												
MIXED FOOD PREPARATIONS	Sauces with aqueous character												
	Sauces with fatty character (e.g. mayonnaise, salad creams...)												
	Mustard												
	Vinegar												
	Sandwiches, toasted bread, pizza containing any kind of foodstuff with fatty substances on the surface												
	Sandwiches, toasted bread, pizza containing any kind of foodstuff but without fatty substances on the surface												
	Soups, sauces, broths powdered or dried with fatty characters (including yeast)												
OTHERS	Soups, sauces, broths powdered or dried but without fatty characters (including yeast)												
	Soups, sauces, broths in any other form with fatty characters (including yeast)												
	Soups, sauces, broths in any other form but without fatty characters (including yeast)												
	Fried or roasted foods of vegetable origin (fried potatoes, fritters)												
	Fried or roasted foods of animal origin												
	Dried foods with fatty substances on the surface												
OTHERS	Dried foods without fatty substances on the surface												
	Herbs, spices, aromatic herbs, coffee and coffee substitutes, granulated or powdered												
	Spices and seasoning in oily medium												
	Cocoa powder												
	Cocoa paste												
	Concentrated extracts of an alcoholic strength equal to or exceeding 6% vol.												
	Frozen or deep-frozen foods												
Ice-creams													

FOOD EXPERT RANGE

Compliance with hygiene rules is an essential requirement in the food industry. The industry invests to continuously improve the safety of its customers, as producers alone are legally liable for the sanitary quality of their products.


















European regulations define precisely the food contact tests to be performed for each type of food. So, a glove can be approved for the handling of certain foodstuffs and not others.

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

Through its dedicated food industry selection guide, Mapa Professional aims to help end users check the food compliance of each glove according to the foods they actually handle, strictly in line with European and French regulations.

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



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

LIQUIDPROOF PROTECTION LATEX



HOW CAN YOU REFINE YOUR CHOICE?

1 WEAR TIME

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

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

2 MATERIAL

Materials guide for disposable and liquid-proof gloves.

Natural latex

Flexibility, comfort and value for money.

Nitrile

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

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

LIQUIDPROOF PROTECTION NITRILE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK

Combination between contact time and the aggressiveness of the chemical being handled. Choose the performance of your gloves based on the type of risk:

- splashes**
- frequent** contact
- prolonged** contact (or immersion)

2 WEAR TIME

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

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

3 MATERIAL

Materials guide for disposable and liquid-proof gloves.

Natural latex
Flexibility, comfort and value for money.

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

LIQUIDPROOF GLOVES

MATERIAL
NITRILE

FINISHING
EASY GOING TREATMENT

FINISHING
FLOCKED

short
WEAR

intermittent
WEAR

**ULTRANITRIL
472**



**Fingertip precision
for handling oily foods**

**ULTRANITRIL
475**



**Liquidproof and strong
for handling oily foods**

**ULTRANITRIL
495**



**The lasting solution
for safe handling of oily foods**

Internal finish
Chlorinated

External finish
Pebbled

Size
6 7 8 9 10

Length Thickness
31 cm 0.20 mm

Internal finish
Flocked

External finish
Non-slip embossing

Size
6 7 8 9 10

Length Thickness
31 cm 0.34 mm

Internal finish
Flocked

External finish
Non-slip embossing

Size
6 7 8 9 10

Length Thickness
30-33 cm 0.41 mm

CAT 3

CAT 3

CAT 3

EN388:2016

2101X

EN ISO 374-1:2016
TYPE B

JOT

EN ISO 374-5:2016

EN421

VIRUS

EN388:2016

3001X

EN ISO 374-1:2016
TYPE B

JOT

EN ISO 374-5:2016

EN388:2016

3101X

EN ISO 374-1:2016
TYPE A

AJKOPT

EN ISO 374-5:2016

CRITICAL ENVIRONMENT PROTECTION

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

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

QUALITY GUARANTEES AT EVERY STAGE OF PRODUCTION



















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

YOUR PRIORITIES ARE OUR PRIORITIES

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

CONTROLLED ENVIRONMENT (CLEAN ROOM)

ENVIRONMENT

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

Logistic information

References	Pair/Bag	Pairs/ Masterbag	Pairs/ Carton	Page N ^R
115	1	10	100	15
117	1	10	100	15
124	1	10	100	15
165	1	10	100	53, 57
174	1	10	100	15
175	1	10	100	15
177	1	10	100	15, 53, 57
180	1	10	100	15
181	1	10	100	15
185	1	10	100	15
186	1	10	100	15
210	1	10	100	15
258	1	10	100	17
260	1	10	50	19
285	1	-	30	19
298	1	5	50	19
299	1	5	50	19
300	1	5	50	17
301	1	5	50	17
307	1	5	50	17
308	1	5	50	53, 57
319	1	5	50	37
321	1	-	50	19
325	1	5	50	19
326	1	5	50	53, 57
328	1	12	96	37
330	1	5	50	37
332	1	-	6	51
339	1	-	6	23
340	1	5	50	23
341	1	5	50	23
344	1	-	1	25
351	-	12	72	15

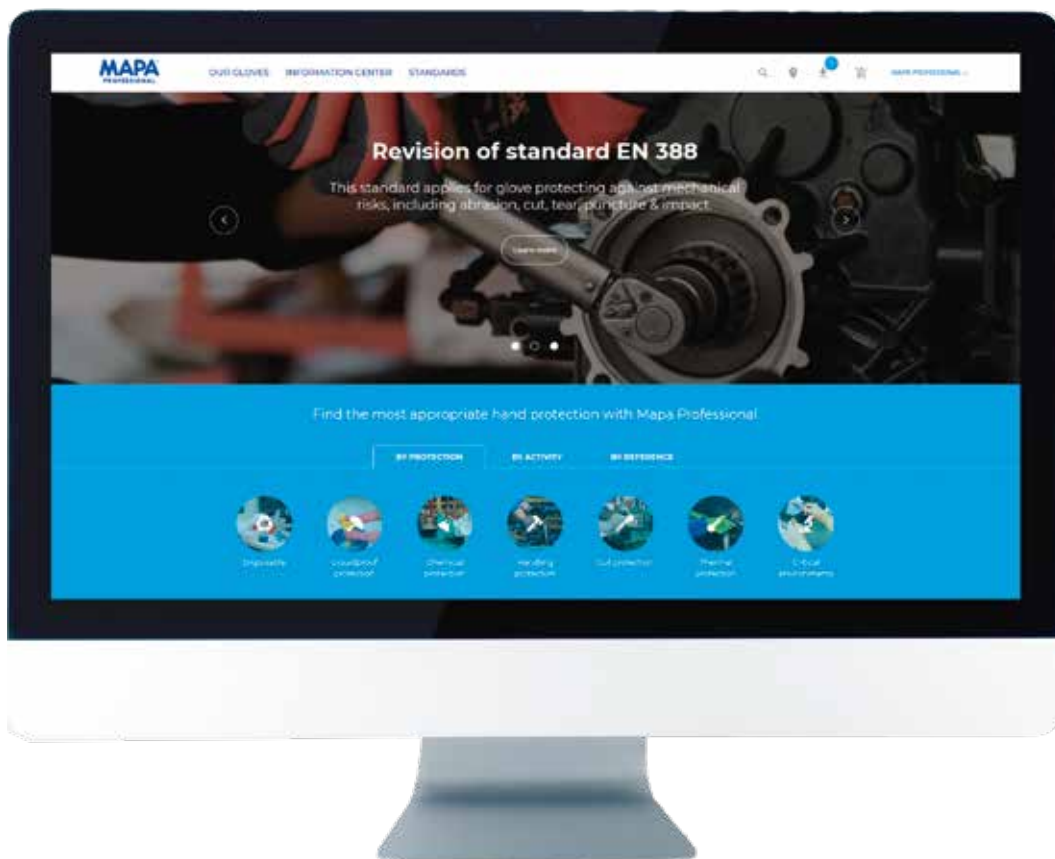
References	Pair/Bag	Pairs/ Masterbag	Pairs/ Carton	Page N ^R
514	1	12	72	61
517	1	12	72	61
519	1	12	72	61
520	1	10	100	15
522	1	6	48	61
524	1	12	96	31
525	1	12	96	33
526	1	12	96	33
527	1	12	96	33
529	-	100	1 000	61
532	-	6	72	47
532 S	-	6	72	47
538	-	6	48	47
540	1	-	100	15
541	-	12	96	33
544	1	12	96	33
548	1	12	96	31
549	1	12	96	31
550	-	10	100	31
551	-	10	100	31
553	1	10	100	33
557	1	10	50	39
558	1	12	96	39
563	1	12	96	39
579	1	12	96	39
580	1	12	48	45
582	1	12	48	45
584	1	12	96	39
585	1	12	48	45
586	1	12	48	43
588	1	12	48	39
599	1	12	48	45
600	1	12	48	45

361	-	5	50	15
375	1	5	50	35
376	1	5	50	35
377	1	5	50	21
380	1	6	48	49
381	-	12	72	21
382	-	12	72	23
383	-	10	100	35
385	-	10	100	35
388	-	10	100	35
391	-	10	100	35
392	-	10	100	35
393	-	10	100	35
395	1	-	12	49
397	1	10	100	35
401	1	10	100	23
405	1	10	100	17
407	1	6	48	23
414	1	-	12	23
415	1	10	100	17
420	1	10	100	23
450	1	10	50	23
454	1	-	50	21
468	1	-	1	25
472	-	10	100	21, 53, 59
475	1	12	72	53, 59
476	1	-	6	51, 53, 55
480	1	-	12	21
487	-	10	100	21
485	-	12	72	21
491	-	10	50	21
492	1	10	100	21
493	1	10	50	21
495	1	10	100	53, 59
500	1	12	96	33
510	1	12	96	31
513	-	50	200	61

601	-	12	48	41
610	1	12	48	41
615	1	12	48	43
622	1	12	48	43
641	1	12	96	33
642	1	12	48	39
643	1	12	48	41
644	1	12	48	43
645	1	12	48	43
648	1	12	96	31
650	1	-	25	25
651	1	-	25	25
700	1	12	72	51
710	1	10	50	51
720	1	12	72	51
770	1	-	48	51
810	1	12	48	41
815	1	12	48	43
832	1	12	72	49
833	-	10	100	35
836	1	12	48	49
838	1	-	10	49, 53, 55
840	1	12	72	49
850	1	12	48	37
851	1	12	48	49
967	-	100	1 000	29, 53, 55
977	-	100	1 000	29
987	-	100	1 000	29
988	-	100	1 000	53, 55
990	-	100	1 000	27
992	-	100	1 000	27
994	-	100	1 000	29
995	-	100	1 000	27, 53, 55
996	-	100	1 000	29
997	-	100	1 000	29
998	-	100	1 000	27
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

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

Find all our documentation on your smartphone !



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