



CATALOGUE 2020

PROTECTIVE GLOVES

A solution
for every hand
that works

MAPA[®]
PROFESSIONAL

HOW TO READ THIS CATALOGUE?

Step 1: Identify your protection needs



PAGE 10
Chemical protection



PAGE 28
Mechanical protection



PAGE 44
Thermal protection



PAGE 46
Food expert range



PAGE 54
Critical environment protection

Step 2: Define the type of glove

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

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

Step 3: Select the most appropriate reference

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

MATERIAL PVC		MATERIAL NATURAL LATEX				
frequent CONTACT		splashes				
continuous WEAR		short WEAR		intermittent WEAR		
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	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

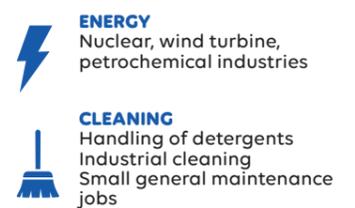
HEALTH
Pharmaceutical preparation
Medical manufacturing
Research
Hospitals and clinics



FOOD AND DRINK INDUSTRY
Food handling and preparations

CONSTRUCTION INDUSTRY
Handling construction materials,
glazing

MARITIME
Cultivation of fishing products



ENERGY
Nuclear, wind turbine,
petrochemical industries

CLEANING
Handling of detergents
Industrial cleaning
Small general maintenance jobs

A SOLUTION FOR EVERY HAND THAT WORKS

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

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

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

PROTECTION OF THE HAND MAPA PROFESSIONAL BEYOND THE GLOVE

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



1 Customer Engineering Department
stc.mapaspontex@newellco.com



2 R&D centres
(60 engineers and technicians)



Integrated production
(3 factories worldwide)



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

Regulations 2016

Why is PPE regulated?

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

Regulation 2016/425

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

DIRECTIVE 89/686 REPLACED BY REGULATION 2016/425

Main differences:

European Directives regarding personal protective equipment lay down the requirements that the equipment and their users must satisfy. The standards are used to draw up technical specifications that meet these new requirements. Directive 89/656/EEC (use) lays down the requirements that employers must meet with regard to the supply and use of PPE by their employees. Directive (EU) 2016/425 stipulates the essential requirements for marketing protective gloves within the European Union.

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

CERTIFICATION CATEGORIES CE

CAT 1

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

CAT 2

Certificate of conformity obtained from a notified body.

CAT 3

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



How to read the standards?

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

MECHANICAL PROTECTION	CHEMICAL PROTECTION	OTHER	THERMAL PROTECTION																					
<p>MECHANICAL HAZARDS EN 388</p> <p>4 3 4 3 C (P)</p> <p>Protection against impacts (P)</p> <p>From A to F Resistance to cutting (X if not applicable*)</p> <p>From 0 to 4 Puncture resistance</p> <p>From 0 to 4 Tear resistance</p> <p>From 0 to 5 Cutting resistance</p> <p>From 0 to 4 Abrasion resistance</p>	<p>SPECIFIC CHEMICAL PROTECTION EN ISO 374-1</p> <table border="0"> <tr> <td> <p>EN ISO 374-1 / TYPE A</p> <p>U V W X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 30 min for at least 6 chemical products on the new list (EN 16523-1)</p> </td> <td> <p>EN ISO 374-1 / TYPE B</p> <p>X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 30 min for at least 3 chemical products on the new list (EN 16523-1)</p> </td> <td> <p>EN ISO 374-1 / TYPE C</p> <p>X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 10 min for at least 1 chemical product on the new list (EN 16523-1)</p> </td> </tr> </table> <p>Degradation test according to EN374-4 is undertaken without performance level requirement</p> <p>LETTER CODE</p> <table border="0"> <tr> <td>A Methanol</td> <td>G Diethylamine</td> <td>M Nitric Acid 65 %</td> </tr> <tr> <td>B Acetone</td> <td>H Tetrahydrofuran</td> <td>N Acetic Acid 99%</td> </tr> <tr> <td>C Acetonitrile</td> <td>I Ethyl acetate</td> <td>O Ammonia 25%</td> </tr> <tr> <td>D Dichloromethane</td> <td>J n-Heptane</td> <td>P Hydrogen Peroxide 30%</td> </tr> <tr> <td>E Carbon disulphide</td> <td>K Sodium hydroxide 40%</td> <td>S Hydrogen Fluoride 40%</td> </tr> <tr> <td>F Toluene</td> <td>L Sulphuric acid 96%</td> <td>T Formaldehyde 37%</td> </tr> </table> <p>EN ISO 374-5 : 2016 Protective gloves against micro-organisms. The gloves must pass the penetration resistance test in compliance with standard EN 374-2: 2014. The option to lay claim to protection against viruses was added if the glove passed test ISO 16604: 2004 (method B).</p> <p>EN ISO 374-5 For gloves protecting against bacteria and fungi.</p> <p>EN ISO 374-5 For gloves protecting against bacteria, fungi and viruses.</p> <p>VIRUS</p>	<p>EN ISO 374-1 / TYPE A</p> <p>U V W X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 30 min for at least 6 chemical products on the new list (EN 16523-1)</p>	<p>EN ISO 374-1 / TYPE B</p> <p>X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 30 min for at least 3 chemical products on the new list (EN 16523-1)</p>	<p>EN ISO 374-1 / TYPE C</p> <p>X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 10 min for at least 1 chemical product on the new list (EN 16523-1)</p>	A Methanol	G Diethylamine	M Nitric Acid 65 %	B Acetone	H Tetrahydrofuran	N Acetic Acid 99%	C Acetonitrile	I Ethyl acetate	O Ammonia 25%	D Dichloromethane	J n-Heptane	P Hydrogen Peroxide 30%	E Carbon disulphide	K Sodium hydroxide 40%	S Hydrogen Fluoride 40%	F Toluene	L Sulphuric acid 96%	T Formaldehyde 37%	<p>RADIOACTIVE CONTAMINATION EN 421</p> <p>WITH NO PERFORMANCE LEVELS</p>	<p>COLD HAZARD EN 511</p> <p>3 2 1</p> <p>From 0 or 1 Water permeability</p> <p>From 0 to 4 Contact cold resistance</p> <p>From 0 to 4 Convective cold resistance</p> <p>HEAT AND FIRE EN 407</p> <p>1 2 3 4 3 4</p> <p>From 0 to 4 Resistance to large splashes of molten metal</p> <p>From 0 to 4 Resistance to small splashes of molten metal</p> <p>From 0 to 4 Radiant heat resistance</p> <p>From 0 to 4 Convective heat resistance</p> <p>From 0 to 4 Contact heat resistance</p> <p>From 0 to 4 Fire behaviour</p>
<p>EN ISO 374-1 / TYPE A</p> <p>U V W X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 30 min for at least 6 chemical products on the new list (EN 16523-1)</p>	<p>EN ISO 374-1 / TYPE B</p> <p>X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 30 min for at least 3 chemical products on the new list (EN 16523-1)</p>	<p>EN ISO 374-1 / TYPE C</p> <p>X Y Z</p> <p>Resistance to penetration EN 374-2 Delay time for permeation ≥ 10 min for at least 1 chemical product on the new list (EN 16523-1)</p>																						
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C Acetonitrile	I Ethyl acetate	O Ammonia 25%																						
D Dichloromethane	J n-Heptane	P Hydrogen Peroxide 30%																						
E Carbon disulphide	K Sodium hydroxide 40%	S Hydrogen Fluoride 40%																						
F Toluene	L Sulphuric acid 96%	T Formaldehyde 37%																						

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

UNDERSTAND THE SPECIAL FEATURES OF A GLOVE TO IMPROVE CHOICE

Different cuff edging Depending on your use



Safety cuff

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



Knitted cuff

Fits to the hand well and protects the wrist.



Straight cuff

Better ventilation of the hand



Rolled cuff

Increased resistance to tearing when putting gloves on



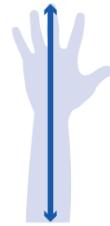
Scalloped cut

Increased service life of the glove

Shapes, sizes and thicknesses

Glove length

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



Glove size

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



Glove thickness

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



Anatomical or ambidextrous gloves

Anatomical gloves

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



Ambidextrous gloves

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



A number of external finishes according to your needs



Smooth

Does not mark the handled objects



Non-slip embossing

Excellent grip in oily environments



Pebbled

Good grip and minimal glove fouling



Reinforced grip

Excellent grip in wet environment



Dot embossing

Improved thermal insulation

The different types of internal finish

Powdered

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

Chlorinated/Easy going treatment

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

Reduces the allergy risk of natural latex gloves.

Flocked

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

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

Textile support

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

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

Use the «Ultracomfort» pictogram to locate this technology.

The different textile types:

Cotton

Comfort, thermal insulation and absorption of perspiration.

Polyamide

Optimised dexterity (fine, seamless).

Para-aramid

Cutting and heat resistance.

High density polyethylene

Cut-resistance and optimised dexterity.

MAPA TECHNOLOGIES (SEE NEXT PAGE)

GRIP & PROOF

GRIP&PROOF

Excellent grip in oily environments combined with liquidproof protection

RESI COMFORT

RESICOMFORT

Comfort and allows hand to breathe without compromising durability

UNDERSTANDING THE SPECIAL FEATURES OF A GLOVE TO IMPROVE CHOICE

GRIP & PROOF

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

SKIN PROTECTION

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

GRIP

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

RESISTANCE

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



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

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

RESI COMFORT

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

COMFORT AND BREATHABILITY

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

RESISTANCE

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



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

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

NEW PRODUCTS

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

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



ULTRANE 541 CUT LEVEL A

COMFORT & BREATHABILITY

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

DURABILITY

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

ADVANTAGES

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

Packaging 12 pairs per bag
96 pairs per box
Washability Once at 40°C

KRYTECH 583 CUT LEVEL C

COMFORT

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

RESISTANCE

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

ADVANTAGES

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

Packaging Individually packed
12 pairs per bag
48 pairs per box

KRYTECH 585 CUT LEVEL C

COMFORT

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

RESISTANCE

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

ADVANTAGES

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

Packaging Individually packed
12 pairs per bag
48 pairs per box
Washability 3 times at 60°C

KRYTECH 622 CUT LEVEL E

COMFORT

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

RESISTANCE

- Good durability which provides better productivity and optimises your costs

ADVANTAGES

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

Packaging Individually packed
12 pairs per bag
48 pairs per box

CHEMICAL PROTECTION

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

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

In order to meet the wide variety of aggressive situations that exist, Mapa Professional offers a wide range of protective gloves designed using polymers, which behave differently and provide different protection according to the situation.

The results of chemical testing and the different chemical classification indices must not be seen as the only factors when selecting a glove. Actual usage conditions, the contact time with a given chemical, the concentration, the temperature, the usage frequency of a glove and the care conditions can affect glove performance. All of these factors should be taken into account when choosing the right glove.

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

www.mapa-pro.com



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 ACIDS (sulphuric acid 96%)	7664-93-9	L	●	●		●●	●●●	●●●
OXIDIZING ACID (nitric acid 65%)	7697-37-2	M	●	●●●		●●●	●●●	●●●
ORGANIC ACID (acetic acid 99%)	64-19-7	N	●	●		●●●	●●●	●●
ORGANIC BASE (ammonia 25%)	1336-21-6	O	●	●	●●		●●●	●●
PEROXYDE (hydrogen peroxide 30%)	7722-84-1	P	●●●	●●●	●●●	●●●	●●●	●●●
HYDROFLUORIC ACID (hydrogen fluoride 40%)	7664-39-3	S		●●●		●●●	●●●	●●
ALDEHYDE (formaldehyde 37%)	50-00-0	T	●●●	●●●	●●●	●●●	●●●	●●●

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

STRENGTHS	Value for money Mechanical strength	Excellent flexibility Good puncture and tearing resistance Adapted to cold environment	Good puncture and abrasion resistance No risk of protein-related allergies	Good flexibility Good thermal resistance	Excellent chemical resistance Flexible and elastic	High chemical resistance
RESTRICTIONS	Not suitable for handling hot parts	Risk of allergies caused by the proteins in the natural latex	Not recommended for cold environments	Poor mechanical properties	Poor mechanical properties	

CHEMICAL PROTECTION TELSOL - VITAL RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK

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

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

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

frequent contact

Pure or mixed chemical substances in frequent contact

prolonged contact (or immersion)

Pure or mixed chemical substances in frequent contact

2 WEAR TIME

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

short wear

Chlorinated interior finish

intermittent wear

Flocked interior finish

continuous wear

Fabric-lined interior finish

ultra-comfort wear

MAPA exclusive technology providing greater flexibility

MATERIAL PVC		MATERIAL NATURAL LATEX									
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	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 going treatment External finish Pebbled Size 7 8 9 Length 31 cm Thickness 0.45 mm	VITAL 175, 177 Internal finish Easy going treatment 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 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 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		CAT 3		CAT 3		CAT 3		CAT 3		CAT 3	
EN388:2016 4141X EN ISO 374-1:2016 TYPE B KMO	EN388:2016 4121X EN ISO 374-5:2016 KLMNPT	EN388:2016 0010X EN ISO 374-1:2016 TYPE B KPT	EN 421 VIRUS* (*VITAL 174 & 175)	EN 421 2010X (VITAL 520) 0010X (VITAL 540)	EN ISO 374-5:2016 KMP (VITAL 520) KPT (VITAL 540)	EN 421 0010X EN388:2016 KPT	EN ISO 374-5:2016 1110X EN ISO 374-1:2016 TYPE B KPS	EN388:2016 1110X EN ISO 374-1:2016 TYPE B KPS	EN388:2016 1110X EN ISO 374-5:2016 KPT	EN388:2016 1110X EN ISO 374-1:2016 TYPE B KPT	EN388:2016 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**
- frequent contact**
- prolonged contact (or immersion)**

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

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

MATERIAL LATEX		MATERIAL LATEX MIX		MATERIAL LATEX	
frequent CONTACT					
intermittent WEAR			continuous WEAR		
ALTO 258	ALTO 405	ALTO 415	JERSETTE 307	JERSETTE 300	
Strong protection against aggressive detergents	Precision dexterity in aggressive environments	Fine touch for light chemical protection	Exceptional comfort and precision dexterity in light aggressive environments	Maximum comfort for long-term work in aggressive environments	
Internal finish 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 2120X	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**
- frequent** contact
- prolonged** contact (or immersion)

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

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

MATERIAL LATEX				
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</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>	<p>Internal finish Flocked External finish Non-slip embossing Size 7 8 9 10 Length 31 cm Thickness 0.90 mm</p>
CAT 3		CAT 3		
EN388:2016 3141X EN ISO 374-1:2016 TYPE B KPT EN407 X2XXXX	EN388:2016 3131X EN ISO 374-1:2016 TYPE A AKLMPT EN ISO 374-5:2016	EN388:2016 2131X EN ISO 374-1:2016 TYPE A ABKMPT EN ISO 374-5:2016	EN388:2016 2120X EN ISO 374-1:2016 TYPE A AKLMPT EN ISO 374-5:2016	EN388:2016 3121X EN ISO 374-1:2016 TYPE A AKLMPT EN ISO 374-5:2016

CHEMICAL PROTECTION ULTRANITRIL RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK

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

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

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

2 WEAR TIME

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

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

MATERIAL NITRILE								
splashes			frequent CONTACT			prolonged CONTACT		
short WEAR			intermittent WEAR		ultra-comfort WEAR	short WEAR	intermittent WEAR	continuous 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 resistance for long-lasting chemical protection
Internal finish Easy going treatment	Internal finish Easy going treatment	Internal finish Flocked	Internal finish Flocked	Internal finish Flocked	Internal finish Mapa technology Textile support	Internal finish Chlorinated	Internal finish Flocked	Internal finish Textile support
External finish Pebbled	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Non-slip embossing	External finish Smooth
Size 6 7 8 9 10	Size 7 8 9 10	Size 6 7 8 9 10	Size 7 8 9 10	Size 6 7 8 9 10 11	Size 7 8 9 10 11	Size 7 8 9 10	Size 8 9 10 11	Size 8 9 10
Length 31 cm	Length 32 cm	Length 31 cm	Length 31 cm	Length 32 cm	Length 35.5 cm	Length 46 cm	Length 39 cm	Length 38 cm
Thickness 0.20 mm	Thickness 0.28 mm	Thickness 0.35 mm	Thickness 0.34 mm	Thickness 0.38 mm	Thickness 0.95 mm	Thickness 0.55 mm	Thickness 0.55 mm	Thickness 1.30 mm
CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3	CAT 3
EN ISO 374-1:2016 TYPE B EN388:2016 2101X JOT	EN ISO 374-1:2016 TYPE B EN388:2016 2101X JOT	EN ISO 374-1:2016 TYPE B EN388:2016 2000X KPT	EN ISO 374-1:2016 TYPE B EN388:2016 3101X JKOPT	EN ISO 374-1:2016 TYPE B EN388:2016 3101X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 3111A JKLOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4102X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4102X AJKOPT	EN ISO 374-1:2016 TYPE A EN388:2016 4122X AJKOPT
EN ISO 374-5: 2016 EN421	EN ISO 374-5: 2016	EN ISO 374-5: 2016	EN ISO 374-5: 2016	EN ISO 374-5: 2016 VIRUS	EN407 EN ISO 374-5: 2016 X1XXXX	EN ISO 374-5: 2016	EN ISO 374-5: 2016	EN407 X1XXXX

CHEMICAL PROTECTION ULTRANEО RANGE



HOW CAN YOU REFINE YOUR CHOICE?

1 RISK

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

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

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

2 WEAR TIME

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

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

MATERIAL POLYCHLOROPRENE						
splashes		frequent CONTACT		prolonged CONTACT		
intermittent WEAR	continuous WEAR	intermittent WEAR	continuous WEAR	ultra-comfort WEAR	short WEAR	continuous WEAR
ULTRANEО 401	ULTRANEО 340	ULTRANEО 420	ULTRANEО 341	ULTRANEО 382	ULTRANEО 407	ULTRANEО 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
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 	EN ISO 374-5:2016 	EN407 	EN407 	EN ISO 374-5:2016 	EN407
X1XXXX	X1XXXX	X1XXXX	X1XXXX	X1XXXX	X1XXXX	X1XXXX



CHEMICAL PROTECTION

BUTOFLEX - FLUOTECH RANGE



HOW CAN YOU REFINE YOUR CHOICE?

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

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

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

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

MATERIAL BUTYL		MATERIAL FLUOROELASTOMER	
<p>BUTOFLEX 651</p> <p>Ultimate specific chemical resistance</p>	<p>BUTOFLEX 650</p> <p>Ultimate specific chemical resistance</p>	<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 Easy going treatment</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>	<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		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>	<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>EN407 X1XXXX</p> <p>EN ISO 374-1:2016 TYPE A ACDEFGJLMN</p> <p>EN ISO 374-5:2016 </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 DONING TREATMENT
Makes it easier to put on and take off gloves, without increasing the thickness and without using powder.
Reduces the allergy risk of natural latex gloves.

3 COLOUR

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

4 DIMENSIONS

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

POLYMER PVC/VINYL	POLYMER LATEX		
COMFORT POWDERED	COMFORT CHLORINATED	COMFORT EASY GOING TREATMENT	COMFORT POWDERED
<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 Textured</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</p> <p>EN ISO 374-5:2016</p> 	<p>CAT 3</p> <p>EN ISO 374-1:2016 TYPE C</p> <p>EN ISO 374-5:2016</p> 	<p>CAT 3</p> <p>EN ISO 374-1:2016 TYPE C</p> <p>EN ISO 374-5:2016</p> 	<p>CAT 3</p> <p>EN ISO 374-1:2016 TYPE C</p> <p>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.

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Flexibility, mechanical strength and chemical resistance to splashes.

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

MECHANICAL PROTECTION ULTRANE RANGE

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



PRECISION WORK

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

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

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

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

2 SERVICE LIFE

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

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

PRECISION WORK

ENVIRONMENT
dry and relatively clean

ENVIRONMENT
oily and very dirty

⌚ **short**
SERVICE LIFE

⌚ **long**
SERVICE LIFE

⌚ **high-performance**
SERVICE LIFE

ULTRANE 548



Optimal dexterity and sensitivity for light protection

Internal finish
Seamless knitted
Textile support



External finish
Polyurethane coating
on palm and fingers
Gauge 13

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

Length
22-27 cm

ULTRANE 551



Unbeatable for fingertip precision

Internal finish
Seamless knitted
Textile support



External finish
Polyurethane coating
on palm and fingers
Gauge 13

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

Length
22-27 cm



ULTRANE 510



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

Internal finish
Seamless knitted
Textile support

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

Size
6 7 8 9 10 11

Length
22-27 cm

Washable
x1



ULTRANE 541



Comfort, suppleness and high dexterity without any compromise on durability

Internal finish
Seamless knitted
Textile support

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

Size
6 7 8 9 10 11

Length
22-27 cm

Washable
x1



ULTRANE 553



Unbeatable for fingertip precision in dirty environments

Internal finish
Seamless knitted
Textile support



External finish
Nitrile coating
on palm and fingers
Gauge 13

Size
6 7 8 9 10

Length
22-26 cm

ULTRANE 500



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

Internal finish
Seamless knitted
Textile support



External finish
Double layer coating: Nitrile
Smooth - Roughened Nitrile
Ultrane 500 palm and fingers
Ultrane 525 3/4 coating
Ultrane 526 complete coating
Gauge 13

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

Length
23-28 cm

Washable
x5



CAT 2

EN388:2016



3121X

CAT 2

EN388:2016



4131X

CAT 2

EN388:2016



4131X

CAT 2

EN388:2016



4121A

EN407



X1XXXX

CAT 2

EN388:2016



4121X

CAT 2

EN388:2016



4121X



MECHANICAL PROTECTION TITAN RANGE



HEAVY-DUTY WORK

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

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

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

- ☐ **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 393	
Comfort and dexterity for common tasks		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 External finish 3/4 nitrile coating Size 7 8 9 10 Length 26.5 cm		TITAN 375 Internal finish Textile support External finish Full nitrile coating Scalloped cut Size 6 7 8 9 Length 26 cm		TITAN 376 Internal finish Textile support External finish Full nitrile coating Scalloped cut Size 8 9 Length 31 cm	Internal finish Textile support External finish Full nitrile coating knitted cuff Size 7 8 9 10 Length 26-29 cm	Internal finish Textile support External finish 3/4 nitrile coating knitted cuff Size 6 7 8 9 10 Length 24-31 cm	Internal finish Textile support External finish Titan 385: 3/4 nitrile coating safety cuff Titan 388: Full nitrile coating safety cuff Titan 391: 3/4 nitrile coating knitted cuff Titan 392: Full nitrile coating knitted cuff Size Titan 385 8 9 10 Titan 388, 391, 392 8 9 10 Length Titan 385, 388 24-26 cm Titan 391, 392 24-27 cm			Internal finish Knitted textile support in brushed cotton External finish Full nitrile coating Size 7 8 9 Length 31 cm	
CAT 2 EN388:2016 3111X		CAT 2 EN388:2016 3111X			CAT 2 EN388:2016 3111X	CAT 2 EN388:2016 4111X	CAT 2 EN388:2016 4111X			CAT 2 EN388:2016 4111X	EN407 X1XXXX



MECHANICAL PROTECTION

TITAN - HARPON RANGE



HEAVY-DUTY WORK

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

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

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

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

2 SERVICE LIFE

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

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

HEAVY-DUTY WORK

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



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 511		KRYTECH 588	
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		Cut protection for optimum comfort, high level of breathability & durability for precision work		Cutting, grip and dexterity for dry and slightly oily environments	
Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres		Internal finish Seamless knitted support manufactured from HDPE fibres	
External finish Polyurethane coating on palm and fingers Gauge 13		External finish Polyurethane coating on palm and fingers Gauge 13		External finish Polyurethane coating on palm and fingers Gauge 13		External finish Polyurethane coating on palm and fingers Gauge 13		External finish Nitrile coating on palm and fingertips Gauge 13		External finish Polymer coating with aqueous base on the palm and fingertips Gauge 13		External finish Roughened nitrile coating one layer Gauge 13	
Size 6 7 8 9 10 11	Length 22-27 cm	Size 6 7 8 9 10 11	Length 27-32 cm	Size 6 7 8 9 10 11	Length 22-27 cm	Size 7 8 9 10 11	Length 26-31 cm	Size 7 8 9 10 11	Length 23-27 cm	Size 7 8 9 10 11	Length 23-27 cm	Size 7 8 9 10 11	Length 23-28 cm
Washable x5		Washable x5		Washable x5		Washable x5		Washable x5		Washable x5		Washable x1	
CAT 2		CAT 2		CAT 2		CAT 2		CAT 2		CAT 2		CAT 2	
EN388:2016 4342B		EN388:2016 4342B		EN388:2016 4343B		EN388:2016 4343B		EN388:2016 4343B		EN388:2016 4341B		EN388:2016 4343B	
ISO 13997: 5.3 N		ISO 13997: 5.3 N		ISO 13997: 5.3 N		ISO 13997: 5.3 N		ISO 13997: 6.5 N		ISO 13997: 6.1 N		ISO 13997: 5.9 N	



MECHANICAL PROTECTION KRYTECH RANGE



PRECISION WORK

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

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

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

2 RISK

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

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

3 SERVICE LIFE

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

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

dry and relatively clean ENVIRONMENT

moderate
RISK

high
RISK

very high
RISK

short
SERVICE LIFE

long
SERVICE LIFE

high-performance
SERVICE LIFE

long
SERVICE LIFE

KRYTECH 601



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

KRYTECH 610



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

KRYTECH 531



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

KRYTECH 583



Suppleness and breathability without compromise on protection & durability

KRYTECH 586



High-level protection for precise handling in reasonably clean environments

KRYTECH 615



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

KRYTECH 622



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

Internal finish
Seamless knitted textile support in composite and HDPE fibres

External finish
Without coating
Gauge 13

Size 7 8 9 10 11 Length 23-28 cm

Washable x1



CAT 2

EN388:2016



1X4XC

ISO 13997: 14.2 N

Internal finish
Seamless knitted textile support in composite and HDPE fibres

External finish
Polyurethane coating on the palm and fingers
Gauge 13

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

Washable x3



CAT 2

EN388:2016



4X43C

ISO 13997: 14.9 N

Internal finish
Seamless knitted support manufactured from HDPE fibres

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

Size 7 8 9 10 11 Length 23-27 cm

Washable x1



CAT 2

EN388:2016



4X42C

ISO 13997: 14N

Internal finish
Seamless knitted textile support in composite and HDPE fibres

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

Size 7 8 9 10 11 Length 24-29 cm

Washable x3



CAT 2

EN388:2016



4X42C

ISO 13997: 11 N

Internal finish
Seamless knitted support manufactured from HDPE fibres

External finish
Polyurethane on palm and fingers
Gauge 13

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

Washable x3



CAT 2

EN388:2016



4X43D

ISO 13997: 18.6 N

Internal finish
Seamless knitted textile support in composite and HDPE fibres

External finish
Polyurethane coating on the palm and fingers
Gauge 13

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

Washable x3



CAT 2

EN388:2016



4X43E

ISO 13997: 29.5 N



MECHANICAL PROTECTION KRYTECH RANGE



PRECISION WORK

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

HOW CAN YOU REFINE YOUR CHOICE?

1 ENVIRONMENT

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

- 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	Internal finish Seamless knitted textile support of HDPE fibre	Internal finish Seamless knitted textile support of HDPE fibre	Internal finish Seamless knitted textile support made from composite fibres and HDPE fibres	Internal finish Seamless knitted textile support made from composite fibres and HDPE fibres
External finish Grip&Proof nitrile coating on palm and fingers Gauge 13	External finish 3/4 Grip&Proof nitrile coating Gauge 13	External finish Full coating in Grip&Proof nitrile Gauge 13	External finish 3/4 Grip&Proof nitrile coating Gauge 15	External finish 3/4 nitrile coating Gauge 13
Size 6 7 8 9 10 11 Length 23-28 cm	Size 7 8 9 10 11 Length 23-28 cm	Size 7 8 9 10 Length 23-28 cm	Size 7 8 9 10 11 Length 24-29 cm	Size 7 8 9 10 11 Length 23-28 cm
CAT 2	CAT 2	CAT 2	CAT 2	CAT 2
EN388:2016 4342B	EN388:2016 4342B	EN388:2016 4342B	EN388:2016 4X42C	EN388:2016 4X43D
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



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



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



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		
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 External finish Leather covering on palm with thumb/forefinger reinforcements Gauge 13 Size 7 8 9 10 11 Length 27-32 cm Washable x5	Internal finish Seamless knitted lining made from HDPE fibres External finish Gauge 10 Size 6 7 8 9 10 11 Length 34 cm Washable x20	Internal finish Seamless knitted textile support made from composite fibres External finish Leather covering on palm with thumb/forefinger reinforcements Gauge 10 Size 8 9 10 11 Length 23-26 cm Washable x5	Internal finish Seamless knitted textile support made from composite fibres External finish Latex palm and fingers/ Non-slip embossing Gauge 10 Size 7 8 9 10 Length 23-26 cm	Internal finish Seamless knitted textile support made from cotton and HDPE fibres External finish 3/4 double layer coating: Smooth nitrile - Roughened nitrile Safety cuff Gauge 13 Size 7 8 9 10 Length 25-27 cm	Internal finish Multi-layer technology: combination of high strength and nitrile fibres External finish Textile support Size 8 9 10 Length 32 cm	Internal finish Seamless knitted textile support made from HDPE and composite fibres External finish Double nitrile layer coating: Smooth nitrile - Roughened nitrile palm and fingers Size 7 8 9 10 11 Length 25-28 cm
CAT 2	CAT 2	CAT 2	CAT 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 EN ISO 374-1:2016 TYPE B JKOPT EN ISO 374-5:2016 X1XXXX ISO 13997: 20.4 N	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)

- long service life
- high-performance service life

CONTACT TIME (HOT)

- short contact
- prolonged contact

TEMPERATURE -10°C		TEMPERATURE up to 150°C		TEMPERATURE above 150°C													
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 <table border="1"> <tr><td>80°C</td><td>70s</td></tr> <tr><td>100°C</td><td>30s</td></tr> <tr><td>125°C</td><td>20s</td></tr> </table>		80°C	70s	100°C	30s	125°C	20s	CONTACT TIME prolonged <table border="1"> <tr><td>80°C</td><td>1min50s</td></tr> <tr><td>100°C</td><td>1min</td></tr> <tr><td>125°C</td><td>38s</td></tr> </table>		80°C	1min50s	100°C	1min	125°C	38s
80°C	70s																
100°C	30s																
125°C	20s																
80°C	1min50s																
100°C	1min																
125°C	38s																
CONTACT TIME prolonged <table border="1"> <tr><td>80°C</td><td>1min50s</td></tr> <tr><td>100°C</td><td>1min</td></tr> <tr><td>125°C</td><td>38s</td></tr> </table>		80°C	1min50s	100°C	1min	125°C	38s	CONTACT TIME short-term <table border="1"> <tr><td>100°C</td><td>37s</td></tr> <tr><td>150°C</td><td>16s</td></tr> <tr><td>175°C</td><td>12s</td></tr> </table>		100°C	37s	150°C	16s	175°C	12s		
80°C	1min50s																
100°C	1min																
125°C	38s																
100°C	37s																
150°C	16s																
175°C	12s																
TEMPICE 770 <p>Thermal insulation 100% sealed for protecting against intense contact cold</p>		TEMPICE 700 <p>Dexterity and comfort for optimised thermal protection and durability</p>		TEMPDEX 710 <p>High dexterity and thermal protection</p>													
TEMPDEX 720 <p>Dexterity and resistance to cuts for optimised thermal protection</p>		TEMPCOOK 476 <p>Hygienic with high-temperature thermal protection 100% liquidproof</p>		TEMPTEC 332 <p>Effective thermal insulation and multi-purpose chemical resistance</p>													
Internal finish Jersey textile support lined with a woollen sleeve External finish Pebbled PVC coating Material PVC Size 9 10 Length 30 cm		Internal finish Seamless knitted textile support External finish 3/4 nitrile coating Gauge 15 Material PVC Size 7 8 9 10 Length 24-27 cm Washable x5		Internal finish Seamless knitted textile support External finish Nitrile coating and dot embossing on palm and finger Gauge 13 Size 7 9 11 Length 24-28 cm													
Internal finish Knitted seamless textile support made from aramid fibres. External finish Nitrile coating and dot embossing on palm and finger Gauge 10 Size Textile 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 Material Neoprene Size 8 9 10 Length 35,5 cm													
CAT 3 EN 388:2016 4221X EN ISO 374-1:2016 TYPE B KMO EN 511 121 EN ISO 374-5:2016		CAT 2 EN 388:2016 4111X EN 407 X1XXXX		CAT 2 EN 388:2016 4343B EN 407 X2XXXX ISO 13997 : 10.2 N													
CAT 3 EN 388:2016 3222X EN 511 02X		CAT 3 EN 388:2016 4443D EN 511 111 EN 407 X2XXXX EN ISO 374-1:2016 TYPE A AFGJOT EN ISO 374-5:2016		CAT 3 EN 388:2016 2212X EN ISO 374-1:2016 TYPE A ACLMNS EN 511 111 EN 407 X2XXXX													

FOOD EXPERT RANGE

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

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

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

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

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

These tests are available on our Mapa Professional Web site

mapa-pro.com



SELECT THE RIGHT GLOVE FOR YOU ACCORDING TO THE FOOD HANDLED

STEP 1 Find the food you handle using the food groups.

STEP 2 Identify the gloves suitable for handling this type of food.

THEN CHECK YOUR GLOVE FOR USE AND COMFORT

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

FOOD CONTACT: YOUR SELECTION GUIDE

SELECT THE RIGHT GLOVE

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

STEP 1	YOU ARE HANDLING	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%.												
	Alcoholic beverages of an alcoholic strength above 20%.												
CEREALS, STARCHES, SUGARS, CHOCOLATES AND DERIVED PRODUCTS	Starches, cereals, flour, meal, dry pasta e.g. macaroni, spaghetti and similar products and fresh pasta												
	Biscuits, pastry, cakes and other bakery products, dry, sugar and confectionery products in solid form; without fatty substances												
	Biscuits, pastry, cakes and other bakery products and confectionery products in solid form; with fatty substances, chocolate, substitutes and products coated												
	Confectionery products in moist past form												
	Molasses, sugar syrups, honey												
	Confectionery products with fatty substances on the surface												
FRUIT, VEGETABLES AND DERIVATIVES	Whole fruit, fresh or chilled, unpeeled; dried or dehydrated fruits; nuts shelled and roasted												
	Fresh vegetables, peeled or cut												
	Processed: cut, in the form of purées, paste or preserved in an aqueous medium, including pickled and in brine												
	Processed in an alcoholic medium												
	Preserved vegetables in an oily medium												
	Preserved fruits in an oily medium												
FATS AND OILS	Nuts in paste or cream form												
	Animal or vegetable, natural or treated												
ANIMAL PRODUCTS AND EGGS	Water emulsions in oil (margarine, butter)												
	Crustaceans and molluscs not naturally protected by their shells, preserved fish in an aqueous medium												
	Crustaceans and molluscs not naturally protected by their shells, preserved fish in an oily medium, marinated meat products in an oily medium												
	Crustaceans and molluscs fresh within the shell												
	Fresh fish, chilled, salted, smoked or in the form of paste												
	Meat of all zoological species, fresh, chilled, salted, smoked or in the form of paste, creams												
	Preserved and part-preserved meat in an aqueous medium												
	Preserved and part-preserved meat in an oily medium												
	Eggs, egg yolks, whites of eggs in a powdered or dried or frozen form												
DAIRY PRODUCTS	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												
	Whole cheeses with non-edible form												
	Processed cheese (soft cheese), preserved cheese in an aqueous medium (mozzarella...)												
DRESSINGS	Preserved cheese in an oily medium												
	Milk powder including infant formula												
	Sauces with aqueous character												
	Sauces with fatty character (e.g. mayonnaise, salad creams...)												
MIXED FOOD PREPARATIONS	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)												
	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)												
OTHERS	Fried or roasted foods of animal origin												
	Dried foods with fatty substances on the surface												
	Dried foods without fatty substances on the surface												
	Herbs, spices, aromatic herbs, coffee and coffee substitutes, granulated or powdered												
	Spices and seasoning in oily medium												
	Cocoa powder												
	Cocoa paste												
Concentrated extracts of an alcoholic strength equal to or exceeding 6% vol.													
Frozen or deep-frozen foods													
Ice-creams													

FOOD EXPERT RANGE

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DISPOSABLE GLOVES			THERMAL PROTECTION	CUT PROTECTION
MATERIAL NATURAL LATEX		MATERIAL NITRILE	MATERIAL NITRILE	MATERIAL TEXTILE FIBRE
FINISHING POWDERED	FINISHING CHLORINATED	FINISHING CHLORINATED		
<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 Exist 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 Pebbled, chlorinated</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</p> <p>External finish Gauge 10</p> <p>Size 6 7 8 9 10 11</p> <p>Length 34 cm</p> <p>Washable x20</p>
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>AFGJOT</p> <p>EN ISO 374-5:2016</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
CHLORINATED

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

CAT 3

EN388:2016

2101X

EN ISO 374-1:2016
TYPE B

JOT

EN ISO 374-5:2016

EN421

Internal finish
Flocked

External finish
Non-slip embossing

Size
6 7 8 9 10

Length Thickness
31 cm 0.34 mm

CAT 3

EN388:2016

3001X

EN ISO 374-1:2016
TYPE B

JOT

EN ISO 374-5:2016

EN421

Internal finish
Flocked

External finish
Non-slip embossing

Size
6 7 8 9 10

Length Thickness
30-33 cm 1.15 mm

CAT 3

EN388:2016

3101X

EN ISO 374-1:2016
TYPE A

AJKOPT

EN ISO 374-5:2016

EN421

CRITICAL ENVIRONMENT PROTECTION

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

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

QUALITY GUARANTEES AT EVERY STAGE OF PRODUCTION

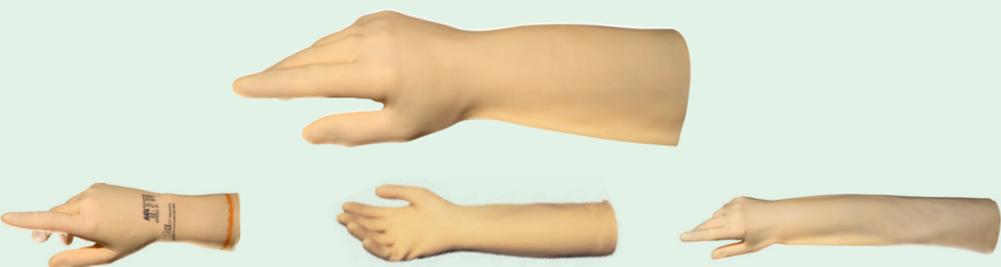
- Mapa Professional uses its own post-manufacturing cleaning process and clean rooms to maintain a level of product and packaging quality that meets requirements for cleanliness and sterility.
- All manufacturing sites have ISO 9002 certification.
- The levels of glove cleanliness are tested periodically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

YOUR PRIORITIES ARE OUR PRIORITIES

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

CONTROLLED ENVIRONMENT (CLEAN ROOM)

ENVIRONMENT

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 Internal finish Chlorinated	REF 514 Internal finish Chlorinated	REF 517 Internal finish Chlorinated			
External finish Smooth with pebbled fingertips		External finish Chlorinated		External finish Pebbled fingertips	External finish Non-slip embossing	External finish Non-slip embossing			
Size 6 7 8 9 10		Size 7 8 9 10		Size 9	Size 7 8 9 10	Size 6 7 8 9 10			
Length 30 cm		Length 33 cm		Length 30 cm	Length 38 cm	Length 36 cm			
Thickness 0.10 mm		Thickness 0.30 mm		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	13
117	1	10	100	13
124	1	10	100	13
165	1	10	100	51
174	1	10	100	13
175	1	10	100	13
177	1	10	100	13, 51
180	1	10	100	13
181	1	10	100	13
210	1	10	100	13
258	1	10	100	15
260	1	10	50	17
285	1	NA	30	17
298	1	5	50	17
299	1	5	50	17
300	1	5	50	15
301	1	5	50	15
307	1	5	50	15
308	1	5	50	51
319	1	5	50	33
321	1	NA	50	17
325	1	5	50	17
326	1	5	50	51
328	1	12	96	33
330	1	5	50	33
332	1	NA	6	45
339	1	NA	6	21
340	1	5	50	21
341	1	5	50	21
344	1	NA	1	23
351	12	NA	72	13

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

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

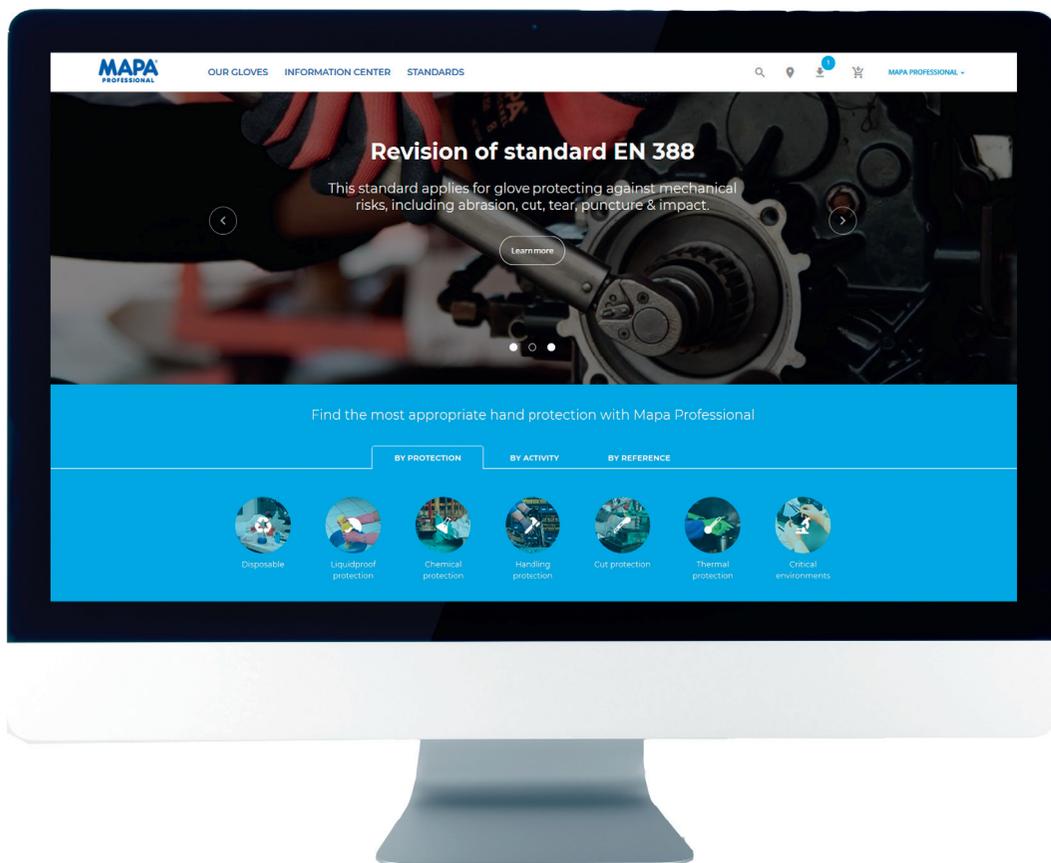
585	12	NA	48	39
586	1	12	48	37
588	1	12	48	35
599	1	12	48	39
600	1	12	48	39
601	12	NA	48	37
610	1	12	48	37
615	12	NA	48	37
622	12	NA	48	37
650	1	NA	6	23
651	1	NA	6	23
700	1	12	72	45
710	1	10	50	45
720	1	12	72	45
770	1	NA	48	45
832	1	12	72	43
833	10	NA	100	31
836	1	12	48	43
838	1	NA	10	43, 49
840	1	12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

Notes

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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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