

2024 CATALOGUE

PROTECTIVE GLOVES



The future is in our hands

Corporate Social Responsability initiative "Our Caring Actions"

Our long-term perspective centres around a process of continuous improvement to develop more responsible sourcing, mitigate our environmental impact and improve social standards with concrete actions and specific goals set within 2025. We are striving to meet our stakeholders' expectations whilst working towards a greener future in which we play an active role in terms of sustainability as we firmly believe that all our efforts, our caring actions for you, for us, no matter how big or small,

once combined and multiplied,

will have a positive impact.





PROTECTING THE PEOPLE WHO MANUFACTURE OUR GLOVES

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

ENSURING A CARING CORPORATE CULTURE

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

GETTING INVOLVED LOCALLY

- Relationship of listening & dialogue with the local authorities and communities in the countries in which we operate
- A culture of caring, listening and solidarity: all mobilised in local actions



REDUCING ENVIRONMENTAL FOOTPRINT

- Selection of the most responsible raw materials possible, with a preference to raw materials and packaging sourced locally
- Close environmental footprint monitoring of our factories certified ISO 14001
- Reduction of our transport- related Greenhouse Gas emissions for all products shipped from our principal Warehouse based in France and strive to extend the learnings to our other sites (Fret 21 programme)

2025 GOALS

Reduce the environmental footprint of our factories (contribution to Newell Brands goals from 2016 to 2025)





-90%
reduction of waste sent
to landfill disposal



reduction of our greenhouse gas emissions (GHG)

SYSTEMATISING ECO-DESIGN APPROACH

- Eco-design grid for each product & packaging development based on Life Cycle Analysis (LCA) to reduce our main environmental impacts
- 50% of cut resistant gloves are washable for:

 extended use

 waste reduction
- 100% of packaging is designed to be recyclable (according to local channels available)
- Plastic savings thanks to reduced packagings (average of 22 tons per year)
- Substitution of virgin LDPE plastic by reclycled content

2025 GOALS

ECO-DESIGN

- 100% of PET based gloves with RPET amongst cut range
- Work towards 100% of washable gloves amongst cut range
- Offer a range of FSC certified latex gloves

PACKAGING

- 100% of plastic packaging optimised (size reduction or suppression + integration of recycled materials)
- 100% of carton/paper packaging from recycled or certified sources

A COMMITTED COMPANY

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

(30 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









Step 2: Define the type of glove

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

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

Step 3: Select the most appropriate reference ▶

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



How to read the pictograms?



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

AERONAUTICS



Work with composite materials (resins)



TRANSPORT

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



HEALTH
Pharmaceutical preparation
Medical manufacturing
Research
Hospitals and clinics



FOOD AND DRINK INDUSTRY
Food handling and preparations



CONSTRUCTION INDUSTRY
Handling construction materials
Glazing



MARITIME
Cultivation of fishing products



AGRICULTURE
Handling of diluted and
concentrated pesticides
Re-entry tasks





CLEANING
Handling of detergents
Industrial cleaning
Small general maintenance jobs





Pairs/Masterbag



Regulation (EU) 2016/425

Why a PPE Regulation?

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

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

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

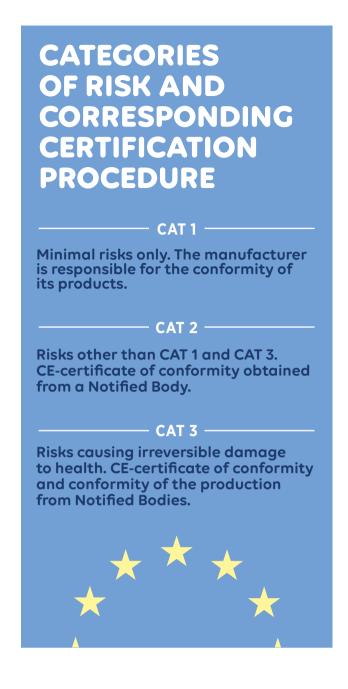
Harmonised European standards (EN 388, EN ISO 374-1...) are used in the certification process to assess conformity of the product to the requirements of the PPE Regulation in relation to the risks against which the product is intended to offer protection. The manufacturer must indicate the conformity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

PPE Regulation (EU) 2016/425

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

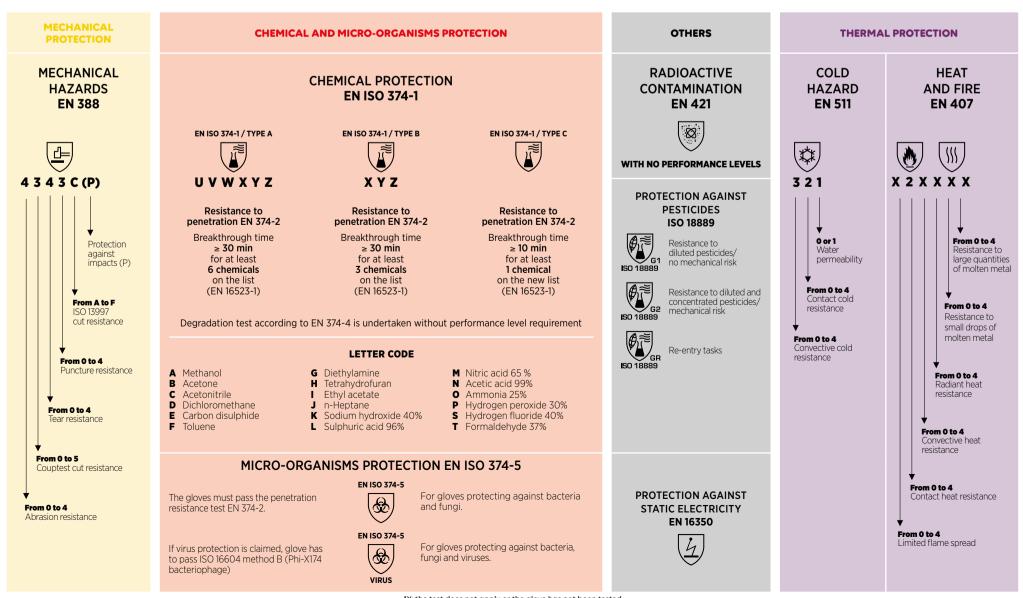
Regulation (EU) 2016/425 and **Directive 89/656/EEC**

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



ow to read the standards

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



Standards information

PROTECTION AGAINST PESTICIDES

ISO 18889: 2019 STANDARD

Protective gloves for pesticide operators and re-entry workers

BACKGROUND

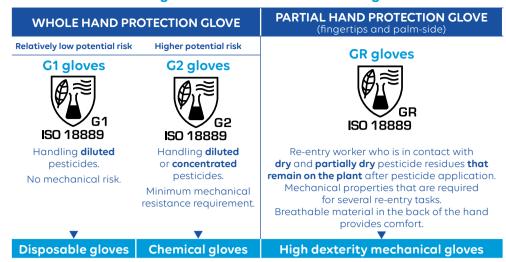
Workers in farm and agriculture sectors are frequently exposed to numerous pesticides hazardous to health. These chemicals should be handled with precautions.

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

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

GLOVE CLASSIFICATION

Protective gloves are classified into 2 categories:



STATIC ELECTRICITY

Which standard deals with electrostatic properties?

GLOVES STAND	ARDS REQUIREMENT	TEST METHOD	PICTOGRAM		
ATEX environment	EN 16350 Vertical resistance: <10 ⁸ Ω at 25% relative humidity *The tests must be performed on 5 samples which must all pass the limit of vertical resistance	EN 1149-2	Introduced in EN ISO 21420: 2020 EN 16350 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.

ANSI/ISEA 105-2016:

The cut resistance standard from the American National Standards Institute (ANSI) and International Safety Equipment Association (ISEA) became effective in North America in March 2016. The updated ANSI/ISEA 105-2016 standard, based on the ASTM F2992-15 testing method, measures cut resistance for Industrial work gloves on a scale of A1-to-A9.

ANSI LEVEL	A1 CUT	A2 CUT	A3	A4 cut	A5 CUT	A6 cut	A7	A8 cut	A9 CUT
Weight (grams) needed to cut through material	≥200	≥500	≥1,000	≥1,500	≥ 2,200	≥ 3,000	≥ 4,000	≥ 5,000	≥6,000

Standards changes

EN 407

The EN 407 standard was revised in 2020.

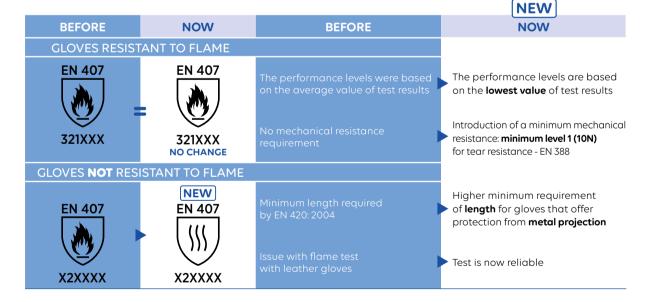
The main reason for the revision is the inclusion of thermal protection articles for private use (oven gloves, potholders, etc.) in the new PPE Regulation (EU) 2016/425.

The performance levels remain unchanged!





Protective gloves and other hand protective equipments against thermal risks



EN ISO 21420

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

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

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

- pot holders
- arm protectors

NEW NEW NEW NEW NEW INNOCUOUSNESS ELECTROSTATIC PROPERTIES FOR ATEX AREA GLOVE SIZING GLOVE MARKING INSTRUCTIONS FOR USE For improved manufacturing Instructions relevant to donning, Limited content of DMFa **New pictogram** ▼ For other electrostatic ✓ No more minimum batch traceability, gloves doffing and adjusting gloves (Dimethylformamide) length required properties EN 16350 in polyurethane (PU) shall be marked with: Comfort and hygiene gloves. It shall not Manufacturing date exceed 1,000 mg/kg no pictogram Protection from contamination at least the month Sizes of gloves and year Limited content of are defined with respect to the sizes of the hands Polycyclic Aromatic List of substances that can cause The electrostatic properties EN 1149-1 ✓ If applicable, they are to fit! or EN 1149-3 shall be tested according obsolescence date behind in the rubber or plastic are no more mandatory* to the EN 16350 standard test methods materials. It shall not on instructions for use the X pictogram (test method EN 1149-2) should be used exceed 1 mg/kg

UNDERSTANDING THE SPECIFIC FEATURES OF A GLOVE FOR AN INFORMED CHOICE

Different cuff edging Depending on your use

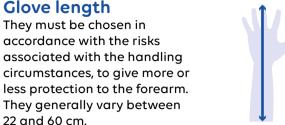
Shapes, sizes and thicknesses

Anatomical or ambidextrous gloves



Safety cuff

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



Anatomical gloves

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





Knitted cuff

Straight cuff

Improved hand ventilation

Provides a good fit for the hand and protects the wrist



22 and 60 cm.

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



Ambidextrous gloves

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



Rolled cuff

Reduces the risk of tearing when doffing gloves

Scalloped/Pink Cuff Longer service life for the glove



Glove thickness

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





Various external finishes to suit your needs



Smooth

No marking of objects being handled



Reinforced grip

Excellent grip in wet environment



Non-slip embossed

Excellent grip in oily environments



Dot embossing Improved thermal

insulation



Pebbled

Good grip and minimal glove fouling

MAPA TECHNOLOGIES (SEE NEXT PAGE)



Increased protection against acids for high end performance



GRIP & PROOF TECHNOLOGY

Excellent grip in oily environments combined with liquid-proof protection

in palm area



Comfort and allows hand to breathe without compromising durability

The different types of internal finish

Powdered

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

Chlorinated/Easy donning treatment

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

Reduces the allergy risk of natural latex gloves.

Flocked

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

Textile support

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

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

Use the «Ultracomfort» pictogram 🕙 to locate this technology.

The different textile types:

Comfort, thermal insulation and sweat absorption.

Polyamide

Optimised dexterity (thin, seamless).

Para-aramid

Cut and heat resistance.

High density polyethylene

Cut-resistance and optimised dexterity.

UNDERSTANDING OUR TECHNOLOGIES





GRIP

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

RESISTANCE

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

SKIN PROTECTION

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

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



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

DURABILITY

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

SKIN PROTECTION

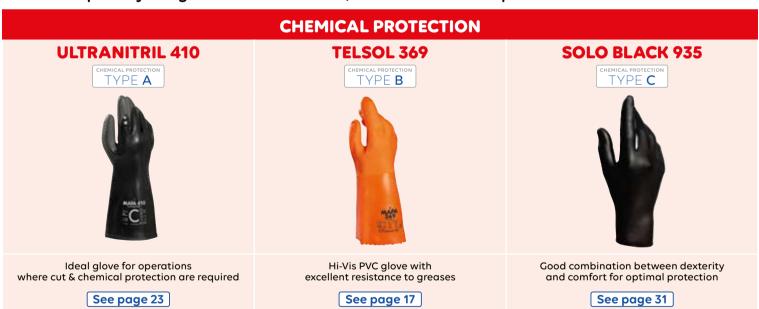
- DMF free
- Free from harmful substances
- STANDARD 100 by OEKO-TEX®

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

NEW PRODUCTS

*See page 37

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



See page 53



See page 43

See page 45

Chemical hazards are not confined to the chemical industry.

Many people, in a variety of sectors, are faced with chemical risks when handling products which are aggressive to a greater or lesser extent (oils, acids, solvents, etc.).

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

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

The results of chemical testing and the different chemical classification indices must not be seen as the only factors when selecting a glove.

Actual usage conditions, the contact time with a given chemical, the concentration, the temperature, the usage frequency of a glove and the care conditions can affect glove performance.

All of these factors should be taken into account when choosing the right glove.

THE MAPA GUIDE: 2 PERFORMANCE INDICATORS

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

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

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.).





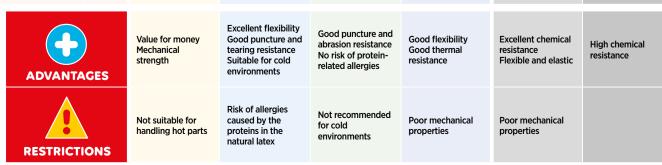
4 easy steps to find the **optimal protective glove match** according to your chemical risk.

- Select up to 4 chemicals you handle
- 2 Specify your conditions of use
- 3 Identify your secondary needs
- 4 Display & refine recommendations

Browse product data and download the results!

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 t material for	he most appropriat your specific applic	e protective ation.	3 Choose yo the level o	ur gloves according f protection you re	g to next quire. pages
YOU ARE HANDLING	CAS	EN 374	PVC	NATURAL LATEX	NITRILE	POLY- CHLOROPRENE	BUTYL	FLUORO- ELASTOMER
				Common		Specific polymers**		
				ECOMMENDATION BY APA PROFESSIONAL		.ight protection ••	Strong protection	Optimal protection
ALCOHOLS (methanol 100%)	67-56-1	Α		•	•	••	•••	••
KETONE (acetone 100%)	67-64-1	В		•		•	•••	
NITRILES (acetonitrile methyl cyanide 99%)	75-05-8	С				•	•••	•
CHLORINATED SOLVENTS (methylene chloride/dichloromethane 99%)	75-09-2	D						•
SULPHUR-BASED CHEMICALS (carbon disulphide 100%)	75-15-0	E			•			•••
AROMATIC SOLVENTS (toluene 100%)	108-88-3	F			•			•••
MINES (diethylamine 98%)	109-89-7	G			•			••
THERS (tetrahydrofuran (THF) 100%)	109-99-9	н			•	•	•	•
ESTERS (ethyl acetate 99%)	141-78-6	ı			•	•	•••	
ALIPHATIC SOLVENTS (heptane 99%)	142-82-5	J	•		•••	••		•••
ALKALIS (sodium hydroxide (soda) 40%)	1310-73-2	K	•••	•••	•••	•••	•••	•••
OXIDISING ACID (sulphuric acid 96%)	7664-93-9	L	•	•		••	•••	•••
OXIDISING ACID (nitric acid 65%)	7697-37-2	М	•	•••		•••	•••	•••
PRGANIC ACID (acetic acid 99%)	64-19-7	N	•	•		•••	•••	••
DRGANIC BASE (ammonia 25%)	1336-21-6	0	•	•	••		•••	••
PEROXIDE (hydrogen peroxide 30%)	7722-84-1	Р	•••	•••	•••	•••	•••	•••
HYDROFLUORIC ACID (hydrogen fluoride 40%)	7664-39-3	S		•••		•••	•••	••
ALDEHYDE (formaldehyde 37%)	50-00-0	т	•••	•••	•••	•••	•••	•••
The most frequently used materials for manufacturing chemical protection gloves. * Protection targeted against certain aggressive chemical product families, these are more stringent than for standard materials.	•		Value for money Mechanical strength	Excellent flexibility Good puncture and tearing resistance Suitable for cold	Good puncture and abrasion resistance No risk of protein-	Good flexibility Good thermal resistance	Excellent chemical resistance Flexible and elastic	High chemical resistance



REUSABLE: PVC - NATURAL LATEX RANGE



HOW CAN YOU REFINE YOUR CHOICE?

RISK

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

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

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ Irequent contact

Pure or mixed chemical substances in frequent contact

Pure or mixed chemical substances in frequent contact

WEAR TIME

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

> MATERIAL **NATURAL LATEX**

> > 📥 splashes

(*) **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

PVC





short





Hand-specific, curved-finger design for low hand fatigue, excellent fit

Comfort, flexibility and curved-finger design provide excellent fit





TELSOL

Good mechanical protection against low chemical hazards



and mechanical protection for low chemical hazards

Comfort, flexibility

Internal finish **Textile support** External finish Pebbled

12 in 30 cm Thickness

VITAL

short

PYLOX

V-20



Dexterity and **Dexterity and** flexibility, curvedflexibility for finger design light aggressive for low hand fatigue, environments excellent fit

Internal finish

678910 12 in 31 cm

Easy donning treatment External finish Non-slip embossed

Thickness 0.40 mm

intermittent



Light glove, supple and flexible





Precision dexterity in non-aggressive environments. Colour-coding to increase safety

Internal finish

External finish Size **M, L, XL**

110.5 in 26.7 cm Thickness

5 mil 0.13 mm

Powdered External finish

M, L, XL

10.5 in 26.7 cm

10 mil 0.25 mm

Internal finish

Thickness

Internal finish **Textile support** External finish

Pebbled

14 in 35 cm

Thickness 1.20 mm

Size **8 9 10**

10.5 in 26.7 cm **Thickness** 1.35 mm 20 mil 0.50 mm

Internal finish **Flocked**

External finish Non-slip embossed Size **7 8 9 10**

12 in 30 cm Thickness 0.29 mm

Internal finish **Flocked**

External finish Non-slip embossed

Size **6 7 8 9** 12 in 30.5 cm

Thickness 0.35 mm

88

(B)

EN 421 88

















KPT



444

KLMNPT

EN 388



Internal finish

External finish

Powdered



##



EN 388

0010X







REUSABLE: NATURAL RUBBER RANGE



HOW CAN YOU REFINE YOUR CHOICE?

RISK

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

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

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ Irequent contact

Pure or mixed chemical substances in frequent contact

Pure or mixed chemical substances in frequent contact

WEAR TIME

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

(*) **short** wear

Chlorinated interior finish

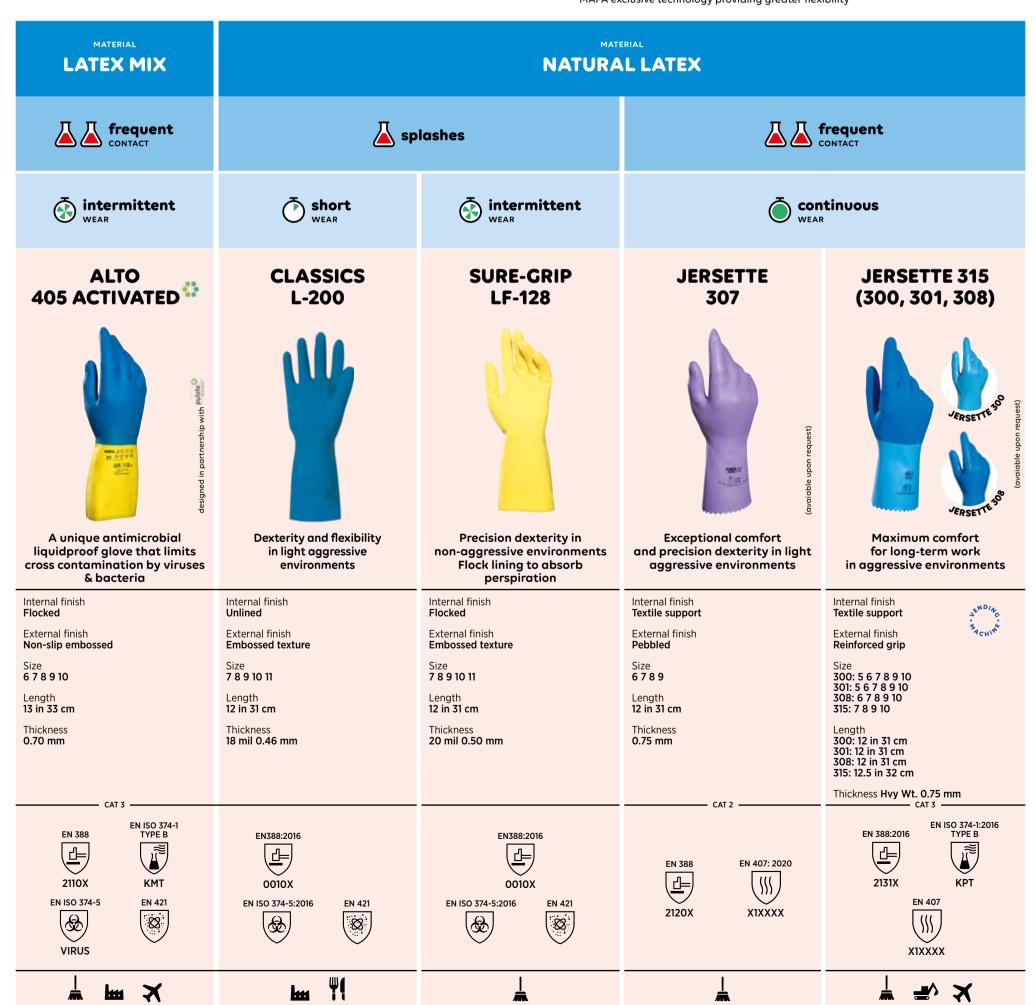
intermittent wear Flocked interior finish

continuous wear

Fabric-lined interior finish

ultra-comfort wear

MAPA exclusive technology providing greater flexibility



REUSABLE: NATURAL RUBBER RANGE



HOW CAN YOU REFINE YOUR CHOICE?

RISK

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

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

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

Chemical substances diluted by immersion or splashes of aggressive substances

▲ A frequent contact

Pure or mixed chemical substances in frequent contact

Pure or mixed chemical substances in frequent contact

WEAR TIME

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

(*) **short** wear

Chlorinated interior finish

intermittent wear Flocked interior finish

continuous wear

Fabric-lined interior finish ultra-comfort wear

MAPA exclusive technology providing greater flexibility

MATERIAL **LATEX MIX**

intermittent

MATERIAL **LATEX**

continuous







Strong protection against aggressive detergents

TWO-TONE NS-53



Precision dexterity in aggressive environments

TRIDENT 286



Good mechanical performance for long-lasting chemical protection

TRIDENT 287



Good mechanical performance extra long-length for added chemical protection

Internal finish Flocked

External finish Non-slip embossing

Thickness 26 mil 0.60 mm

Internal finish **Flocked**

External finish Non-slip embossing

Size **7 8 9 10** Length 13 in 33 cm Thickness 28 mil 0.70 mm

Internal finish Chlorinated

External finish Smooth

Size **9 10 11** Length

18 in 46 cm Thickness 40 mil 1.0 mm

Internal finish Chlorinated

External finish Smooth

Size **9 10 11**

Length 23 in 59 cm

Thickness 35 mil 0.88 mm

EN388:2016

EN ISO 374-1:2016

EN ISO 374-5:2016



KMT

CAT 3



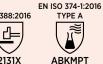
















Mapa Professional Catalogue - mapa-pro.com



CHEMICAL PROTECTION

REUSABLE: NITRILE CHEMICAL RANGE



HOW CAN YOU REFINE YOUR CHOICE?

RISK

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

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

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ Irequent contact

Pure or mixed chemical substances in frequent contact

Pure or mixed chemical substances in frequent contact

WEAR TIME

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

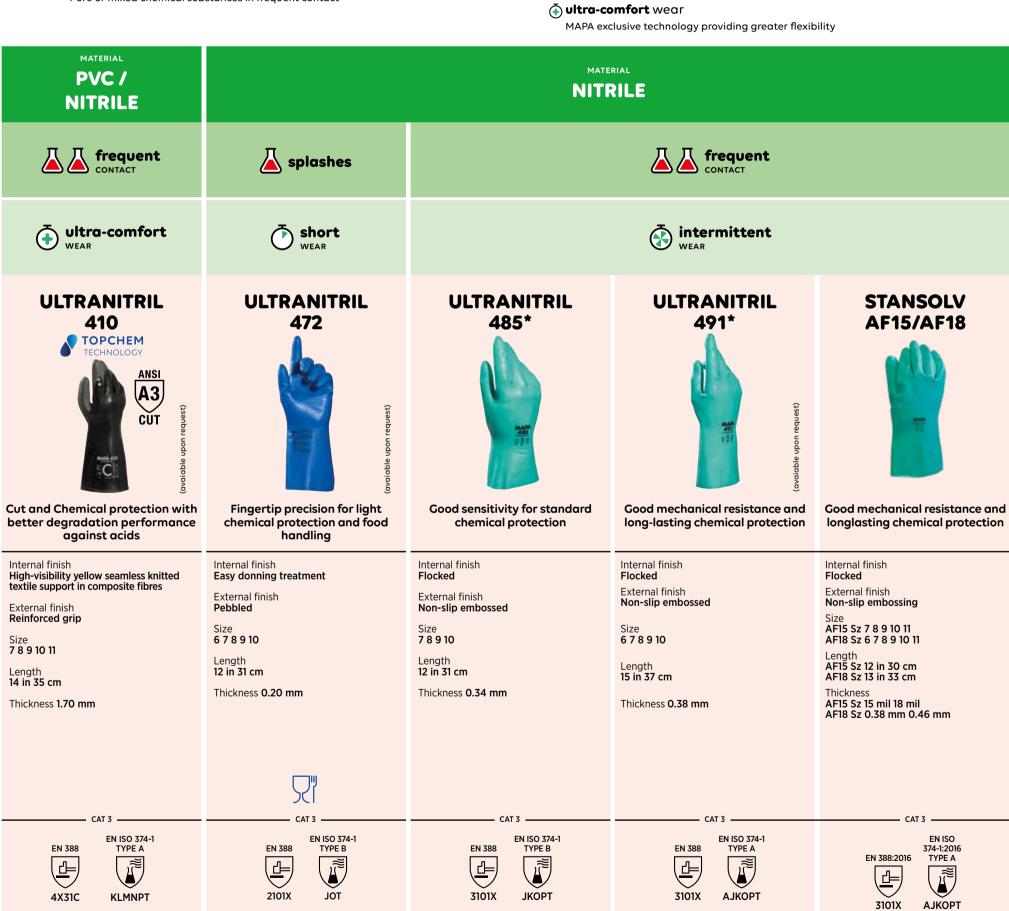
(*) **short** wear

Chlorinated interior finish

intermittent wear

Flocked interior finish

continuous wear Fabric-lined interior finish



HH 🚘

ANSI

EN 407: 2020

X1XXXX

EN ISO 374-5

B

VIRUS

EN ISO 374-5

(B)

VIRUS

ISO 18889

EN ISO 374-5

ISO 18889

EN ISO 374-5:2016

B

VIRUS

ISO 18889

REUSABLE: NITRILE CHEMICAL RANGE



HOW CAN YOU REFINE YOUR CHOICE?

RISK

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

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

splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ Irequent contact

Pure or mixed chemical substances in frequent contact

Pure or mixed chemical substances in frequent contact

WEAR TIME

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

(*) **short** wear

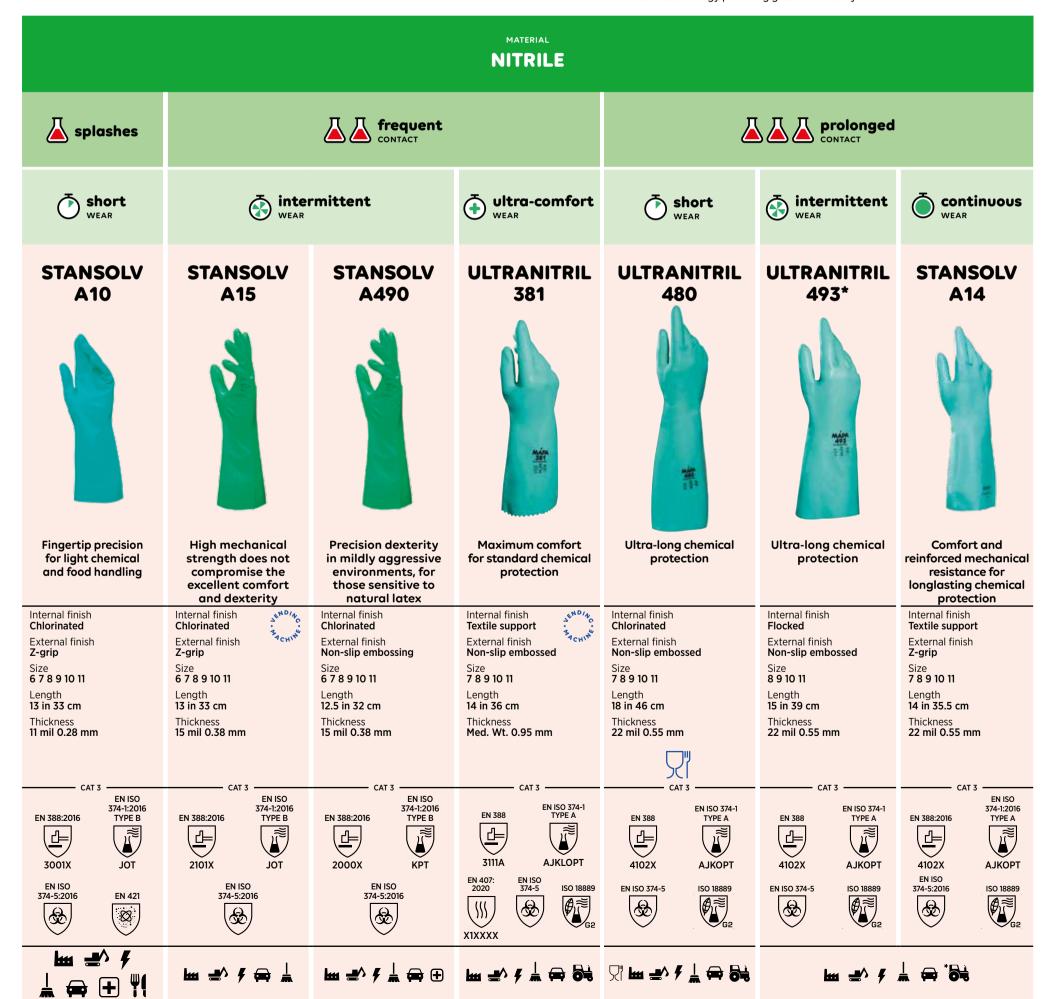
Chlorinated interior finish

intermittent wear Flocked interior finish

continuous wear Fabric-lined interior finish

ultra-comfort wear

MAPA exclusive technology providing greater flexibility



REUSABLE: NEOPRENE CHEMICAL RANGE



HOW CAN YOU REFINE YOUR CHOICE?

✓ RISK

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

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

🚣 splashes

Chemical substances diluted by immersion or splashes of aggressive substances

Pure or mixed chemical substances in frequent contact

AAA prolonged contact (or immersion)

Pure or mixed chemical substances in frequent contact

WEAR TIME

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

short wear
Chlorinated interior finish

intermittent wear
Flocked interior finish

continuous wear
Fabric-lined interior finish

• ultra-comfort wear

MAPA exclusive technology providing greater flexibility

MATERIAL **POLYCHLOROPRENE (NEOPRENE)** Frequent contact splashes intermittent intermittent continuous continuous ultra-comfort short continuous **STANSOLV CHEMPLY CHEMPLY ULTRANEO ULTRANEO ULTRANEO ULTRANEO NL34/NL52** 401 420 **N360** 382 N440/N540 339 TRANEO Tactile sensitivity **Comfort and Comfort with light** Suppleness and Ultra-high Ultra-high performance Maximum comfort chemical protection freedom of movement for standard chemical for light chemical performance chemical protection high chemical protection for standard chemical chemical protection protection protection protection Internal finish Internal finish Internal finish Internal finish Internal finish Internal finish **Flocked Textile support Flocked** Chlorinated **Textile support** Chlorinated **Textile support** External finish External finish Non-slip embossed Sandy rough Non-slip embossed Non-slip embossed Z-grip Pebbled Size 6 7 8 9 10 11 Size **6 7 8 9 10** 420: 6 7 8 9 10 11 450: 7 8 9 10 11 NL34: 6 7 8 9 9 10 11 9 10 11 8 9 10 11 NL52: 8 9 10 11 Length Length Length N440/N540: 14 in 35.5 cm N740: 18 in 45.5 cm N360: 14 in 35.5 cm N730: 18 in 45.5 cm 12 in 31 cm 14 in 36 cm Length **NL34: 12 in 31 cm** Length **420: 12 in 31 cm** 14 in 36 cm Thickness Hvy. Wt. 1.35 mm NL52: 14 in 35.5 cm 450: 16 in 41 cm Thickness 22 mil 0.75 mm 20 mil 0.55 mm Med. Wt. 0.90 mm N440/N740: 30 mil 0.75mm **Thickness** 30 mil 0.75 mm N540: 40 mil 1.01mm EN ISO 374-1 EN 388 EN 388 EN 388 EN 388 EN 388 EN 388 **ALMNST ABCJLMNS** 2110X **ALMNST ABCJLMNS** 2111X 2121X **ALMNST** 2121X 2111X 2121X **ALMNST ABCJLMNS** 3121X EN 407: 2020 EN 407: 2020 EN 407: 2020 EN ISO 374-5 **&** 8 \$\$\$ **& &** \$ \$ X1XXXX X1XXXX X1XXXX

CHEMICAL PROTECTION

CHEMICAL PROTECTION REUSABLE: BUTYL CHEMICAL RANGE



HOW CAN YOU REFINE YOUR CHOICE?

✓ RISK

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

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

👗 splashes

Chemical substances diluted by immersion or splashes of aggressive substances

▲ A frequent contact

Pure or mixed chemical substances in frequent contact

△△△ prolonged contact (or immersion)

Pure or mixed chemical substances in frequent contact

WEAR TIME

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

short wear
Chlorinated interior finish

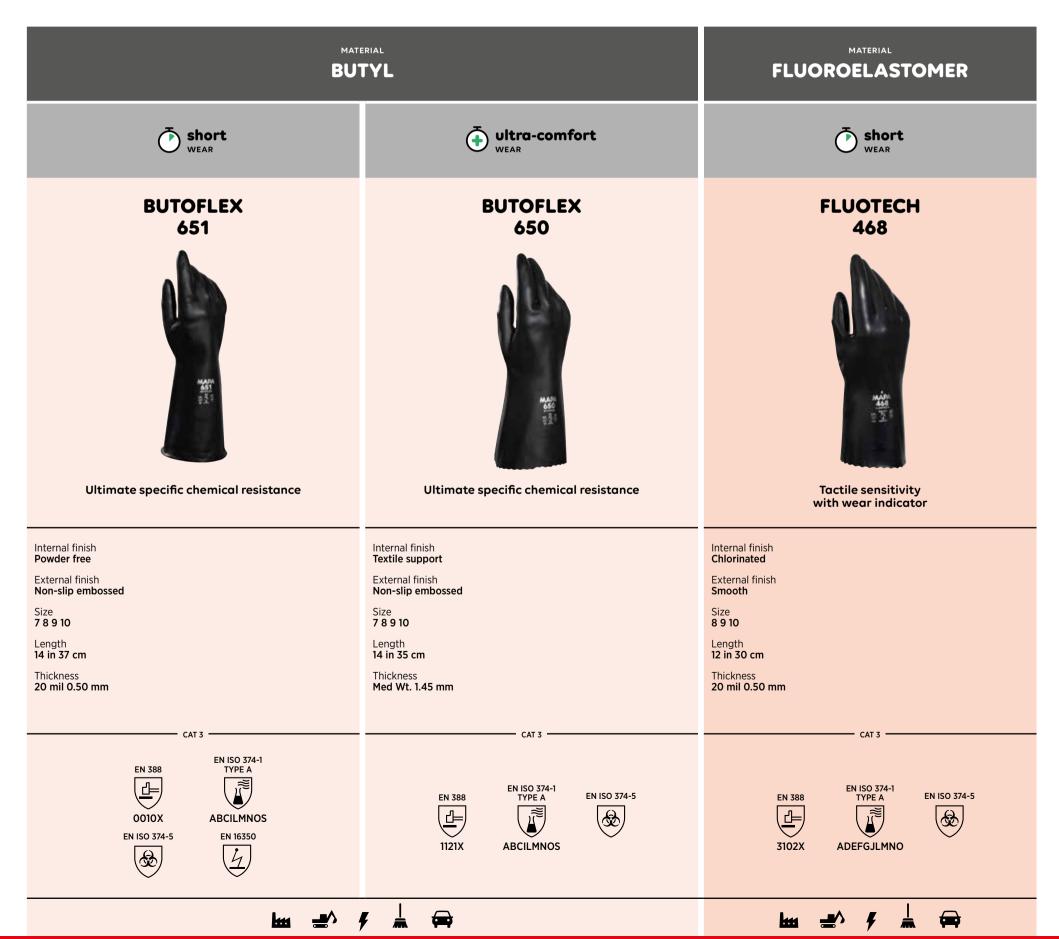
intermittent wear

Flocked interior finish

continuous wear Fabric-lined interior finish

ultra-comfort wear

MAPA exclusive technology providing greater flexibility



CHEMICAL PROTECTION **DISPOSABLE: SOLO RANGE**

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



DISPOSABLE GLOVES

There are several advantages of disposable gloves:

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

4 ADDITIONAL CRITERIA TO REFINE YOUR CHOICE

POLYMERS

Mechanical strength and price.

LATEX

Flexibility and comfort.

NITRILE (next page)

Mechanical resistance and resistance to oils.

TRIPOLYMER (next page)

Flexibility, mechanical strength and chemical resistance to splashes.

COMFORT AND FLEXIBILITY

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

POWDERED

Better sweat absorption.

CHLORINATED

Easy donning and no powder on hands.

EASY DONNING TREATMENT

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

COLOUR

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

DIMENSIONS

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

POLYMER **NITRILE/VINYL**

POLYMER **NITRILE**

POWDER FREE

CHLORINATED

SOLO BLACK 935



Suppleness and optimal resistance

SOLO



Excellent dexterity Supplied in bags or

due to the flexibility and thinness of the material. boxes (Solo BOX 967)





Ideal splash protection for use in the chemical industry

SOLO 999



Excellent mechanical resistance, ideal in oily environments

SOLO



The perfect protection for light handling in oily environments

SOLO



The perfect protection for light handling in oily environments

External finish

Size **6 7 8 9**

Length 9.5 in 24 cm

3 mil 0.08 mm

EN ISO 374-1 TYPE C

Thickness

Internal finish Chlorinated External finish

> Size **6 7 8 9** Length 10 in 25 cm

fingertips

Thickness 3 mil 0.07 mm

Smooth with pebbled

Internal finish External finish

678910

Length 9.5 in 24 cm

Thickness 4 mil 0.13 mm Internal finish External finish

Size 6789

Length 11.5 in 29.5 cm

Thickness 4 mil 0.10 mm Internal finish

External finish Smooth with pebbled fingertips

Size **6 7 8 9** Length 10 in 24 cm

Thickness 4 mil 0.10 mm

Internal finish

External finish Smooth with pebbled fingertips

67891011

Length 12 in 30 cm

Thickness 8 mil 0.20 mm







EN ISO 374-1 TYPE C





JKT



CAT 3







JKT

EN ISO 374-1

TYPE B

8 VIRUS

EN ISO 374-5

TYPE B

JKT

EN ISO 374-1



EN ISO 374-5











CHEMICAL PROTECTION DISPOSABLE: TRILITES RANGE

MAPA Professional offers a range of disposable gloves to meet your needs regardless of your working environment.

The use of different polymers optimises the ergonomics and performance of the gloves: flexibility, resistance and comfort.

DISPOSABLE GLOVES

There are several advantages of disposable gloves:

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

4 ADDITIONAL CRITERIA TO REFINE YOUR CHOICE

POLYMERS

PVC (previous page)

Mechanical strength and price.

LATEX (previous page) Flexibility and comfort.

NITRILE

Mechanical resistance and resistance to oils.

TRIPOLYMER

Flexibility, mechanical strength and chemical resistance to splashes.

7

COMFORT AND FLEXIBILITY

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

POWDERED

Better sweat absorption.

CHLORINATED

Easy donning and no powder on hands.

EASY DONNING TREATMENT

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

CHEMICAL PROTECTION



COLOUR

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



DIMENSIONS

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

POLYMER **TRIPOLYMER CHLORINATED TRILITES** TRILITES GRIPPY 994 993/983 Tripolymer formula Tripolymer formula for protection against for protection against chemical splashes chemical splashes and splatters and splatters Internal finish Internal finish External finish External finish Non-Slip Grip Size **6 7 8 9** Size **6 7 8 9** Length 10 in 25 cm Length 983: 11.5 in 29 cm 993: 10 in 25.5 cm Thickness Thickness 6 mil 0.15 mm 6 mil 0.15 mm EN ISO 374-1 TYPE B EN ISO 374-1 TYPE B EN ISO 374-5 EN ISO 374-5 8 (B)

MECHANICAL PROTECTION HANDLING PROTECTION: **ULTRANE RANGE**

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

PRECISION WORK

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

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

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

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

SERVICE LIFE

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

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

PRECISION WORK







ULTRANE 548



Optimal dexterity and sensitivity offering light protection

ULTRANE



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

ULTRANE



Protection of electronic device from ElectroStatic Discharge (ESD)

ULTRANE 551



Unbeatable for fingertip precision

ULTRANE



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

Seamless knitted textile support

Polymer coating with aqueous



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

Seamless knitted textile support

Gauge 13

Coating Polyurethane coating on palm and fingers

Knitted wrist

Cuff

548: 5 6 7 8 9 10 11 size 5 available upon request

Length 8.5-10.5 in 20-27 cm

Liner Seamless textile support

Gauge 13

Coating Ventilated back Polyurethane coating on palm and fingers

Knitted wrist

567891011 size 5 available upon request

Length **8.5-10.5 in 21-27 cm**

Liner Seamless textile with

conductive fibres

Gauge 18

Coating Polyurethane coating on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Length **8.5-10.5 in 22-27 cm**

Washable x1

Seamless knitted textile support

Gauge 13

Coating Polyurethane coating on palm and fingers

Knitted wrist

5 6 7 8 9 10 11 size 5 available upon request

Length **8.5-10.5 in 20-27 cm**

base on palm and fingers

Gauge 13

Coating

Size 67891011

Knitted wrist

Length **8.5-10.5 in 22-27 cm**

Washable x1

Seamless knitted textile support

Gauge 18

Coating Foam nitrile coating on palm

Knitted wrist

67891011

Length 9-11 in 23-28 cm

Washable x1





EN 388

CAT 2

EN 388 <u></u>

3121X

CAT 2



CAT 2









CAT 2

EN 388



EN 388

















MECHANICAL PROTECTION HANDLING PROTECTION: **ULTRANE RANGE**

PRECISION WORK

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

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

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

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

SERVICE LIFE

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

short service life

Iong service life

high-performance service life

PRECISION WORK







ULTRANE 527



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

ULTRANE 541



Comfort, suppleness and high dexterity without compromising breathability and durability

ULTRANE 664



Eco-designed handling glove made of recycled fibres* with high dexterity and comfort

ULTRANE 500*



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

Seamless textile with patent pending specific knitting technology by MAPA PROFESSIONAL

Gauge 15

Coating Foam nitrile coating with sandy finish on palm

Knitted wrist

Size **6 7 8 9 10 11**

Length 8.5-10.5 in 22-28 cm

EN 388

Washable x1

Seamless knitted textile support

Gauge 15

Coating

Foam nitrile coating with sandy finish on palm and fingers

Cuff Knitted wrist

6 7 8 9 10 11

Length 8.5-10.5 in 22-28 cm

Washable x1

Seamless knitted textile support made of recycled polyester fibres

(*39% of the liner i.e. 20% of the total weight of the glove)

Gauge 15

Coating Foam nitrile coating on palm and fingers

Knitted wrist Size **6 7 8 9 10 11**

Length 8.5-10.5 in 21-27 cm

Washable x1

Seamless knitted textile support

Gauge 13 Coating

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

500/525: 6 7 8 9 10 11

526: 7 8 9 10 11 Length 8.5-10.5 in 21-27 cm

Washable **x3**































MECHANICAL PROTECTION HANDLING PROTECTION: **EXONIT RANGE**

HEAVY-DUTY WORK

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

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

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

Iong service life

SERVICE LIFE

high-performance service life

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

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





comfort thanks to palm pads and dexterity

Shock absorption on the back, **Flexible Thermal Protection** with impact and cut protection

Seamless knitted textile support

Gauge 13

Coating Complete Grip & Proof nitrile coating Double layer coating: Smooth nitrile - Sandy Nitrile
TPR full protection pad on back-of-hands

Cuff Knitted wrist

Size **9 10 11**

Length **25.5-27.5cm**

Aramid Fiber

Gauge 13

Coating Raised high grip nitrile dots TPR full protection pad on back-of-hands

Size **7 9 11**

Length **9.5-11 in**

CAT 2 EN 388

3X21XP









MECHANICAL PROTECTION CUT 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 cutting machine). Furthermore, the EN 388 and ISO 13997 test results give no more than an indicative average value, and an on-site study may be recommended to determine the most appropriate type of protection for a workstation. Do not hesitate to contact our technical department for further information.

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

 \emptyset dry and relatively clean environments

• oily and very dirty environments

wet environments

RISK

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

low risk - ISO B

⚠ moderate risk - ISO C

high risk - ISO D

▲ very high risk - ISO E

SERVICE LIFE

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

Iong service life

high-performance service life









KRYTECH



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

KRYTECH 579



Light cut protection for very precise handling in reasonably clean environments







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

Seamless knitted textile support in HDPE fibres

Gauge 13 Coating **Polyurethane coating Knitted wrist**

Size **6 7 8 9 10 11**

Length **8.5-10.5 in 22-27 cm** Washable x3

Seamless textile support

Gauge 13

Coating Polyurethane coating on palm and fingers

Cuff Knitted wrist

Size 567891011 size 5 available upon request

Length **8.5-10.5 in 22-27 cm** Washable x**5**

Liner Seamless textile support

Gauge 13

Polyurethane coating on palm and fingers

KRYTECH

Cuff Knitted wrist Size 67891011

Length 10.5-12.5 in 27-32 cm Washable x5

Seamless knitted textile support

Gauge 13

Polyurethane coating on palm and fingers

Cuff

Knitted wrist

5 6 7 8 9 10 11 size 5 available upon request

Length 8.5-10.5 in 21-27 cm Washable x5



CAT 2 EN 388

EN 388

4X42B ISO 13997: 5N





ANSI

CAT 2

ISO 13997: 5.3N



CAT 2

ANSI



ISO 13997: 9.5N



##

CAT 2

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

PRECISION WORK

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

IMPORTANT

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

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

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



RISK

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

low risk - ISO B

⚠ moderate risk - ISO C

high risk - ISO D

very high risk - ISO E



SERVICE LIFE

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

Iong service life

high-performance service life











long



KRYTECH

long



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

high-performance



642



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

KRYTECH



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

KRYTECH 693

moderate



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

KRYTECH 643

performance



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

Seamless Knitted textile Support in

Coating Foam nitrile coating with sandy finish

composite and HDPE fibres

Length 8.5-10.5 in 23-28 cm

Gauge 15

Knitted wrist

Size **6 7 8 9 10 11**

Washable x1

Liner

Seamless knitted textile support in composite and HDPE fibres

Gauge 18

Coating Foam nitrile coating on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Length 9.5-11.5 in 24-29 cm Washable x1

Seamless knitted textile support in composite and HDPE fibres

Gauge **15**

Coating Foam nitrile coating with sandy finish on palm and fingers

Cuff **Knitted wrist**

Size **6 7 8 9 10 11**

Length 8.5-10.5 in 23-28 cm

Washable x1



CAT 2

Seamless knitted textile support in composite and HDPE fibres

Gauge 13

Coating Polyurethane coating on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Length 9-11 in 23-28 cm

Washable x3



Seamless knitted textile support in composite and HDPE fibres

Gauge 18

Coating Foam nitrile coating on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Length 9.5-11.5 in 24-29 cm Washable x1





EN 407: 2020



3X42B ISO 13997: 9.7N







4X42B ISO 13997: 5.7N











EN 388

ISO 13997: 14.5N





EN 388

X1XXXX ISO 13997: 13.5N



CAT 2

MECHANICAL PROTECTION CUT PROTECTION: KRYTECH RANGE

PRECISION WORK

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



HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

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

RISK

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

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



SERVICE LIFE

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

- Iong service life
- high-performance service life





high RISK







KRYTECH



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

KRYTECH 694



effect for optimal comfort and dexterity thanks to its 18 gauge. High vision textile for reinforced safety

Seamless knitted textile support

in composite and HDPE fibres

Foam nitrile coating on palm

High cut protection with second skin

KRYTECH



Very high cut protection, comfortable thanks to excellent adjustment and good compatibility with touch screens

KRYTECH KRYTECH



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

Liner

Seamless knitted textile support in composite and HDPE fibres

Gauge 13

Coating

Cuff

Polyurethane coating on palm and fingers

Knitted wrist

Size **6 7 8 9 10 11**

Length 9.5-11.75 in 24-29 cm

Washable x3

Cuff Knitted wrist Size **6 7 8 9 10 11**

Gauge 18

Coating

and fingers

Length 9.5-11.5 in 24-29 cm

Washable x1

Seamless knitted textile support in composite and HDPE fibres

Gauge 13

Coating

Polyurethane coating on palm and fingers

Cuff Knitted wrist

Size 6 7 8 9 10 11

Length 9.5-11.5 in 24-29 cm

Washable x5

Seamless knitted textile support in composite

Gauge 15

Coating Foam nitrile coating with sandy finish on palm and fingers

Cuff Knitted wrist

Size **6 7 8 9 10 11**

Length **9-11 in 23-28 cm**

Washable x1



CAT 2



ISO 13997: 20N

























ISO 13997: 16N





















MECHANICAL PROTECTION CUT PROTECTION: KRYTECH GRIP & PROOF RANGE

PRECISION WORK

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



HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

 \emptyset dry and relatively clean environments

• oily and very dirty environments

wet environments

RISK

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

low risk - ISO B

high risk - ISO D

▲ very high risk - ISO E

SERVICE LIFE

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

Iong service life

high-performance service life



oily and very dirty











KRYTECH 580



Eco-designed cut protection glove with grip and skin protection for precise handling in slightly oily and dirty environments

KRYTECH 599



Eco-designed cut protection glove with grip and skin protection for complex handling operations in oily environments

Liner Seamless textile support in HDPE fibres and recycled polyester fibres (*39% of the liner i.e. 23% of the total weight of the glove)

KRYTECH 600



Eco-designed cut protection glove with grip and skin protection for complex handling operations in very oily environments

Liner Seamless textile support in HDPE fibres and recycled

polyester fibres (*39% of the liner i.e. 22% of the total weight of the glove)

Double layer coating: Smooth nitrile - Sandy Nitrile

KRYTECH 582



High cut protection for complex handling operations in oily environments

Seamless knitted textile support

in composite and HDPE fibres

Smooth nitrile - Sandy Nitrile

Double laver coating

Length 9-11 in 23-28 cm

Gauge 13

Knitted wrist

Size **6 7 8 9 10 11**

Washable x5

Coating 3/4 nitrile coating

Seamless textile support in HDPE fibres and recycled polyester fibres (*25% of the liner i.e. 15% of the total weight of the glove)

Gauge 13

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

Knitted wrist

Size **6 7 8 9 10 11**

Length 9-11 in 23-27 cm

EN 388

4X42B

· CAT 3

EN 407: 2020 ISO 18889



ISO 13997: 6N











Gauge 13

Coating

Cuff Knitted wrist

Length **9-11 in 23-27 cm**

Size **7 8 9 10 11**

Double layer coating: Smooth nitrile - Sandy Nitrile



ISO 13997: 6N











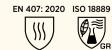
Gauge 13

Coating

Size **7 8 9 10**

Cuff Knitted wrist

Length 9-11 in 23-26 cm



X1XXXX

ISO 13997: 6N



CAT 3











ISO 13997: 18N



CAT 2

CAT 3

MECHANICAL PROTECTION CUT PROTECTION: KRYTECH SLEEVE RANGE

PRECISION WORK

Cut-protection with improved comfort, dexterity and safety.



HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the cuff most suitable for your working environment:

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

RISK

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

1 low risk - ISO B

⚠ moderate risk - ISO C

high risk - ISO D

very high risk - ISO E



MECHANICAL PROTECTION CUT PROTECTION: KRYTECH RANGE



HEAVY-DUTY WORK

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

HOW CAN YOU REFINE YOUR CHOICE?

ENVIRONMENT

Select the glove most suitable for your working environment:

 \emptyset dry and relatively clean environments

• oily and very dirty environments

wet environments

RISK

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

low risk - ISO B

⚠ moderate risk - ISO C

high risk - ISO D

very high risk - ISO E



SERVICE LIFE

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

Iong service life

high-performance service life









KRYTECH 840



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

395

KRYTECH



Lasting chemical protection and high cut protection combined

EXONIT 853



High cut protection combining shock absorption on the back, comfort thanks to palm pads and dexterity

Liner Seamless knitted textile support in composite and HDPE fibres

Gauge 10

Latex palm and fingers/Non-slip embossed

Cuff

Knitted wrist Size 7 8 9 10

Length

9-10.25 in 23-26 cm

Liner Cotton textile support

Coating Nitrile between internal and external finish

Size **8 9 10**

Length 32 cm

Thickness 12.5 in 32 cm

Liner Seamless knitted textile support

Gauge **13**

Coating 3/4 Grip & Proof nitrile coating
Double layer coating:
Smooth nitrile - Sandy Nitrile
TPR full protection pad on back-of-hands

Knitted wrist

Size **9 10 11**

Length 10-11 in 25.5-28.5 cm

3X43D

EN 388 EN 407: 2020 ANSI X2XXXX

ISO 13997: 19.8N

CUT

EN 388 些 4X43D EN ISO 374-1 TYPE B **JKOPT**

X1XXXX







Α4 CUT

ISO 13997: 21.5 N

ISO 13997: 20.4N

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THERMAL PROTECTION

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



HOW CAN YOU REFINE YOUR CHOICE?

TEMPERATURE

Depending on the temperature of the objects to be handled.



Temperature **up to 150°C**

Temperature above 150°C

ENVIRONMENT

Depending on the environment in which you are working.

- wet environments
- \emptyset **dry** environments
- moderately oily environments
- **L** chemical environments

USAGE DURATION

In cold settings, the duration depends on the intrinsic quality of the coating material. In hot settings, the duration depends on the contact time with the part at a given temperature.

SERVICE LIFE (COLD)

Iong service life

high-performance service life

CONTACT TIME (HOT)

short contact

prolonged contact

TEMPERATURE



wet **ENVIRONMENTS**



 \emptyset dry moderately oily

ENVIRONMENTS

up to 300°F (150°C)



moderately oily

ENVIRONMENTS

TEMPDEX

720



chemical

moderately oily

ENVIRONMENTS

above 300°F 150°C)

wet

chemical

moderately oily

ENVIRONMENTS





TEMPICE

700

GRIP & PROOF



176°F/80°C 70s 212°F/100°C 30s 257°F/125°C 20s

TEMPDEX

710

CONTACT TIME prolonged

176°F/80°C 1min50s 212°F/100°C 1min 257°F/125°C 38s

CONTACT TIME prolonged

176°F/80°C 1min50s 212°F/100°C 1min 257°F/125°C 38s

TEMPCOOK

476



176°F/80°C 37s 212°F/100°C 16s 257°F/125°C 12s

TEMPTEC

332/NL517

TEMPICE 780



Thermal insulation 100% sealed for protecting against intense contact cold

Internal finish Jersey textile support lined with a woollen

External finish Pebbled **PVC** coating Size

9 10 Length

12 in 30 cm

Dexterity and comfort

for optimised thermal protection and durability Internal finish

Double seamless knitted textile support

seamless Gauge 15 for external seamless

External finish 3/4 smooth nitrile coating palm and fingers

Knitted wrist Size 78910

Length 9.5-10.5 in 24-27 cm Washable x5

Seamless knitted textile support Gauge 10 for internal Gauge 13

External finish

Internal finish

Nitrile coating and dot embossing on palm and

High dexterity and

thermal protection

Cuff Knitted wrist

Length **9.5-11.5 in 23-27 cm**

CAT 2

resistance to cuts for optimised thermal protection Internal finish

Dexterity and

Knitted seamless textile support made from aramid fibres

Gauge 10

External finish Nitrile coating and dot embossing on palm and

Cuff **Knitted wrist**

Size

Length

9.5-11 24-28 cm

TEMPDEX



Dexterity and resistance to cuts for optimised thermal protection

Knitted seamless textile

Nitrile coating and dot

embossing on palm and finger

support made from aramid

Internal finish

Gauge 10

External finish

Cuff Knitted wrist



high-temperature thermal protection 100% liquid-proof

Internal finish Knitted thermal protection

Non-slip embossed Nitrile coating Size **7(S) 9(M) 10(L)**

External finish

Length **17.5 in 45 cm**

Internal finish Knitted thermal protection

> External finish Polychloroprene (neoprene)

Effective thermal

insulation and

multi-purpose

chemical resistance

Size **8 9 10**

coating

TempTec 332: 14 in 35.5 cm TempTec NL517: 17 in 43 cm

EN 388 4

3221X

EN511

121



CAT 3









CAT 2



EN511



EN 388













Length **9.5-11 in 24-28 cm**

X2XXXX ISO 13997: 23.4N (2339g)

EN 407: 2020





AFGJOT









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EN 388



EN511





CRITICAL ENVIRONMENT **PROTECTION**

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

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



QUALITY GUARANTEES AT EVERY STAGE OF PRODUCTION

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

YOUR PRIORITIES ARE **OUR PRIORITIES**

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



TRILITES



984CP

Reinforced mechanical resistance for short duration operations

ADVANTECH



The chemical protection of nitrile combined with excellent mechanical resistance

ADVANTECH 517 (TRIONIC E194BPK)



ROLLPRUF 0716/0726



ADVANTECH 514

ADVANTECH 522

An exclusive, comfortable tripolymer for optimal mechanical and chemical resistance

Material
Mixed formulas (latex, Neoprene and nitrile)

Material
Tripolymer (latex, Neoprene and nitrile)

Internal finish

External finish

Length 11.5 in 29 cm

6 mil 0.15 mm

Thickness

Chlorinated

Size **6 7 8 9**

Material **nitrile**

Internal finish

External finish

Chlorinated

Size **7 8 9 10**

Length **33 cm**

Thickness

13 in 33 cm

111 mil 0.30 mm

ROLLPRUF 0716/0726

ADVANTECH 514

Internal finish Chlorinated External finish
Non-slip embossed

Size **6 7 8 9 10 11**

Length 15 in 38 cm

Thickness 20 mil 0.51 mm

ADVANTECH 517/

Internal finish

External finish Non-slip embossed

Size **6 7 8 9 10** Length

14 in 36 cm Thickness 20 mil 0.50 mm

TRIONIC 521/ **ADVANTECH 522**

Internal finish

External finish Non-slip embossed

8 9 10

521 522 Length Length 18 in 46 cm 24 in 61 cm

Thickness 20 mil 0.50 mm

EN ISO 374-1:2016 TYPE B







EN ISO 374-5

(B)







Internal finish Chlorinated

Size **7.5 8 8.5 9**

Length 12 in 30 cm

Thickness 8 mil 0.20 mm

CAT 3

External finish
Pebbled fingertips















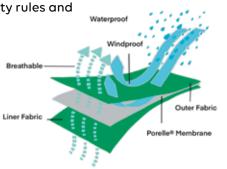
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CRYOGENIC PROTECTION

Specialized range of gloves and accessories to protect operators in presence of liquid nitrogen and other cryogenic gases. PPE (Personal Protective Equipment) manufactured with select technical materials following strict quality rules and subject to rigorous tests of strength and durability.

The main function of the breathable Porelle® membrane is to ensure waterproofness in use, while keeping the user dry and comfortable.





MAIN FEATURES OF A CRYOGENIC PROTECTIVE GLOVES:

- Ability to protect against cold contact for extended periods of time.
- Waterproof insulation from cryogenic liquids, without compromising flexibility and dexterity.
- Low temperature and cryogenic gas will not cause damage to the glove material.

UNIQUE CONSTRUCTION

- Cryogenic waterproof glove made of a special elastic and laminated blue fabric.
 Internal glove and cuff insulation polyester multilayer fleece (410g/m²) and polyolefin Porelle® membrane, 15 cm (6») cuff with NYLON®
- Stitching. Overall length of the glove 40 cm (16 in)
- Suitable for applications handling liquid nitrogen and other cryogenic gases to protect from cold contact and prevent burns from liquid gas leakage.

CRYOGENIC PROTECTIVE GLOVES

CRYOKIT



CRYOKIT 550



Protection from exposure to very low temperatures

The safe use of cryogenic liquified gas depends largely on the knowledge of their properties and compliance with simple common sense precautions.

GENERAL INFORMATION

General precautions are related to the common characteristics of all cryogenic liquified gas:

- Extremely low temperatures

- Evaporation of large volumes of gas from small amounts of liquid

- Tendency to accumulate cold vapor in the lower strata of the environment. Specific precautions are necessary for certain gases: oxygen, i.e., prevent contact with substances that may reactivolently. It is very important that users have a thorough understanding of the instructions for use of devices and equipment, along with specific precautions suggested by the gas supplier.

Material Special elastic and laminated blue fabric

Internal finish
Multilayer fleece (410g/m²) and
polyolefin Porelle* membrane

Laminated fabric

Size **6 7 8 9 10 11**

Length 16 in 41 cm Internal finish Multilayer fleece (410g/m²) and polyolefin Porelle* membrane

External finish Laminated fabric

Size **8 9 10 11**

Length 22 in 56 cm

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COMMON HAZARDS

Exposure of the skin to very cold temperatures can cause damage similar to burns, with prolonged exposure frostbite can occur. Inhalation of vapors at low temperature can damage the lungs, cryogenic liquids or vapors can cause eye damage. In contact with cold surfaces (pipes or non-insulated vessels), the skin may adhere very firmly due to the freezing of moisture and tear when you try to remove. Excessive concentrations of oxygen increase the danger of fire and excessive concentrations of other gases, reduces the percentage of oxygen in the environment, creating the danger of asphyxiation.

PRECAUTIONS WEAR SUITABLE PROTECTIVE CLOTHING AT LOW TEMPERATURES.

Protect your eyes with a face shield or goggles equipped with lateral protection. Always wear gloves made by nonabsorbent materials to handle objects that are or have been in contact with the liquid. The gloves should be comfortable, but fit loosely so they can be removed and discarded quickly in the event of accidental liquid penetration. The use of apron and overshoes are recommended in the decanting (transfer) operation.

FIRST AID IN CASE OF ACCIDENT TO EXPOSURE TO COLD

Wash affected areas with plenty of warm water and avoid rubbing and removing clothing, do not expose area to direct heat. If there are symptoms of frostbite, injury or extensive damage to the eyes get immediate medical assistance. Until medical assistance arrives protect the affected areas with soft, dry, clean & loosely wrapped material, avoid restricting circulation, keep the patient warm and still, and no alcoholic beverages.

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CAT 3



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USO CRIOGENICO
CRYOGENIC USE
WATERPROOF

Notes

www.mapa-pro.us



▶ Contact forms

Get in touch easily with our commercial and technical teams

▶ Selection guides

for each segment to help you choose the right glove

► An advanced search engine to find a product based on your own criteria, with a database continuously updated

► A tool to help you locate your nearest Mapa Professional distributor





► A chemical glove selection tool

with a clearer recommendation suitable with your needs

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

> Find all our documentation on your smartphone!



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