

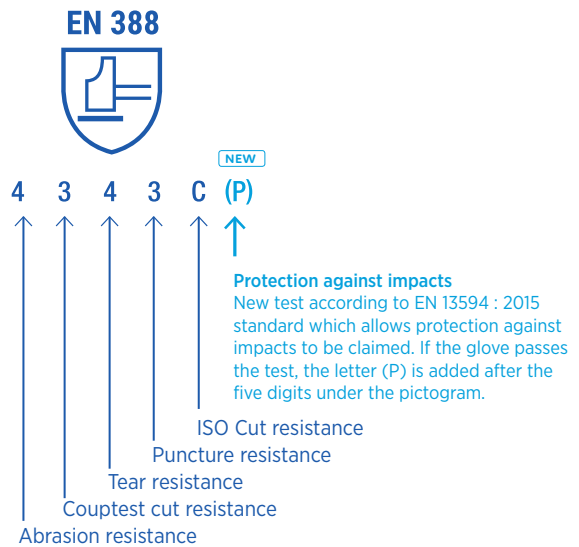
STANDARD REVISION EN 388 : 2016

This standard applies to gloves protecting against mechanical risks, including abrasion, cut, tear and puncture. It was necessary to revise the standard as the cut resistance test (Couptest) did not allow the performance of high resistance gloves to be fully qualified correctly.

Cut resistance : a more reliable Couptest method with improved control of the blade. A fifth digit under the pictogram is created to indicate the cut level according to the ISO 13997 test.

MAPA Professionnel was already using this method for many years.

Abrasion resistance : the abrasion test is done with a new abrasive paper (Klingspor PL31B 180 grit), a more reliable quality paper than the one used previously.



PERFORMANCE LEVELS (value greater than or equal to...)

Test	Level 1	Level 2	Level 3	Level 4	Level 5
Abrasion resistance (cycles)	100	500	2 000	8 000	
Cut resistance - Couptest (index)	1,2	2,5	5,0	10,0	20,0
Test resistance (Newton)	10	25	50	75	
Puncture resistance (Newton)	20	60	100	150	
Cut resistance according to EN ISO 13997 (Newton)	Level A	Level B	Level C	Level D	Level E
	2	5	10	15	22
				Level F	30

Note : The letter X means that the test was not performed or is not applicable.

STANDARD REVISION EN 374 : 2016

This standards applies to gloves protecting against chemicals and micro-organisms.

In many countries there are more than 15 000 different chemicals in use in more than 60 000 products within industry, construction, agriculture etc. Tested and approved chemical gloves are the right solution against many of these chemicals. You have to find out the name of the chemical and approximately how much time you need to be in contact with the chemical.

Standard EN ISO 374-1 : 2016

- Protective gloves against chemicals
- It is based on three test methods:
- Penetration test in accordance with standard EN 374-2 : 2014
- Permeation test in accordance with standard EN 16523-1 : 2015 which replaces standard EN 374-3
- Degradation test in accordance with standard EN 374-4 : 2013

6 new chemicals have been added to the list of hazardous compounds : now there are 18 chemical products that can be tested.

Standard EN ISO 374-5 : 2016

Protective gloves against micro-organisms. Gloves must pass the penetration resistance test in accordance with standard EN 374-2 : 2014. The possibility of claiming protection against viruses was added, if the glove passes ISO 16604 : 2004 (method B) test.

1 PICTOGRAM AND 3 TYPES OF GLOVE

Type of gloves	Requirement	Marking
Type A	Penetration resistance (EN 374-2) Breakthrough time \geq 30 min for at least 6 chemicals in the new list (EN 16523-1)	EN ISO 374-1 / TYPE A AJKLPR
Type B	Penetration resistance (EN 374-2) Breakthrough time \geq 30 min for at least 3 chemicals in the new list (EN 16523-1)	EN ISO 374-1 / TYPE B JKL
Type C	Penetration resistance (EN 374-2) Breakthrough time \geq 10 min for at least 1 chemical in the new list (EN 16523-1)	EN ISO 374-1 / TYPE C



























For gloves offering protection against bacteria and fungi.



For gloves protecting against bacteria, fungi and viruses.

PRODUCT SPECIFICATION

Category	Choice criteria	Product name	Standards	Size available	Lenght	Material interior and exterior finish	Pack conditioning	
Handling Protection Precision work	DRY 	Ultrane 548 VM	 3121X	6 to 11	21-27 cm	Seamless textile support / polyurethane coating on palm and fingers Gauge 13	1 pair / single pack 12 pairs / masterbag 96 pairs / carton	
		Ultrane 549 VM	 3121X	6 to 10			1 pair / single pack 12 pairs / masterbag 96 pairs / carton	
		Ultrane 550 VM	 4131X	6 to 10			1 pair / single pack 10 pairs / masterbag 100 pairs / carton	
		Ultrane 551 VM	 4131X	6 to 11			1 pair / single pack 10 pairs / masterbag 100 pairs / carton	
		Ultrane 553 VM	 4121X	6 to 10	21-26 cm		Seamless textile support /ventilated back: nitrile coating on palm and fingers Gauge 13	1 pair / single pack 10 pairs / masterbag 100 pairs / carton
	OILY 	Ultrane 500 VM	 4121X	6 to 11	23-28 cm	Seamless textile support /ventilated back: nitrile coating on palm and fingers Gauge 13	1 pair / single pack 6 pairs / masterbag 96 pairs / carton	
	Cut Protection Precision work	DRY 	Krytech 579 VM	 4342B	6 to 11	22-27 cm	Seamless textile support from HDPE fibres/Polyurethane on palm and fingers Gauge 13	1 pair / single pack 6 pairs / masterbag 96 pairs / carton
			Krytech 557 R VM	 4343B	6 to 11		Seamless textile support from HDPE fibres/polyurethane on palm and fingers + crotch reinforcement in nitrile Gauge 13	1 pair / single pack 5 pairs / masterbag 50 pairs / carton
			Krytech 586 VM	 4X43D	6 to 11	24-30 cm	Seamless textile support from HDPE fibres/Polyurethane on palm and fingers Gauge 13	1 pair / single pack 6 pairs / masterbag 48 pairs / carton
			Krytech Arm 532 VM	 334XB	one size	450 mm	Sleeves with moderate protection form HDPE, polyamide ultra-thin thumb loop	1 sleeve / single pack 12 sleeves / masterbag 72 sleeves / carton
Krytech Arm 538 VM			 4X4XD	one size	600 mm	Sleeves with high protection form HDPE, polyamide ultra-thin thumb loop	1 sleeve / single pack 12 sleeves / masterbag 48 sleeves / carton	
OILY 		Krynit 580 VM	 4343	6 to 11	23-28 cm	Seamless textile support from HDPE fibres / full nitrile coating Gauge 13	1 pair / single pack 6 pairs / masterbag 48 pairs / carton	
		Krynit 582 VM	 4X43D	7 to 11		Seamless textile support from HDPE fibres / nitrile coating on palm and fingers Gauge 13	1 pair / single pack 6 pairs / masterbag 48 pairs / carton	
Thermal Protection		125°C Short contact	Tempdex 710 VM	  4111X X1XXXX	7 9 11	24-28 cm	Seamless textile support / nitrile coating with dot embossing on palm and fingers Gauge 13	1 pair / single pack 5 pairs / masterbag 50 pairs / carton
	125°C Prolonged contact	Tempdex 720 VM	  4343B X2XXXX	7 to 11	24-28 cm	Seamless textile support from aramidefibres / nitrile coating with dot embossing on palm and fingers Gauge 13	1 pair / single pack 6 pairs / masterbag 72 pairs / carton	
Chemical Protection	Frequent contact Intermittent use	Ultranitril 492 VM	 En 388:2016 3101X  En ISO 374-1 Type A AJKOPT  En ISO 374-5	6 to 11	32 cm Thickness 0,38 mm	Flocked Embossed texture	1 pair / single pack 12 pairs / masterbag 72 pairs / carton	



MAPA VENDING PACKAGING RANGE

Handling protection

Cut protection

Thermal protection

Chemical protection

A solution
for every hand
that works

MAPA[®]
PROFESSIONNEL

MAPA packaging solution

An **easy way** to access to hand protection

More than 50% of documented 3 million yearly accidents occurring in the workplace are for injuries, wounds, dislocations and sprains. **27% of these are hand related.** Therefore, it is even more important to guarantee employees access to the correct type of hand protection.

Vending Machine distribution systems helps the process of reducing hand injuries whilst improving working conditions.

Vending machine system for gloves



Maximize safety

Ensure the right glove to the worker.



Increase efficiency

Easy access.
24/7 access to products to avoid down time.



Optimise cost

Controlled dispensing limits access to gloves.
Reduces up to 35% gloves consumption.



Improve supply

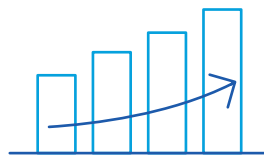
Automated ordering
Reduced inventory
Better stock management

Special MAPA packaging



Safety

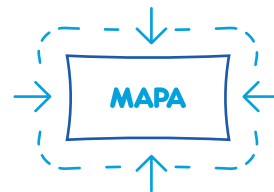
Clear information available on sticker:
product name,
standards and size.



Productivity

Mapa packaging fits in several vending machine

- Coil system
- Case system



Packaging quality

Folded glove held with a plastic band to ensure a small packing size.
A qualitative film has been developed to protect the product during storage.

An offer to cover main risks

Handling protection

Ultrane 548/549 VM

548 : black
549 : white



En 388:2016		
3121X		

Ultrane 550/551 VM

550 : white
551 : grey



En 388:2016		
4131X		

Ultrane 553 VM



En 388:2016		
4121X		

Ultrane 500 VM



En 388:2016		
4121X		

Cut protection

Krytech 579 VM



En 388:2016		
4342B		

Krytech 557R VM



En 388:2016		
4343B		

Krytech 586 VM



En 388:2016		
4X43D		

Krynit 580 VM



En 388:2003		
4343		

Krynit 582 VM



En 388:2016		
4X43D		

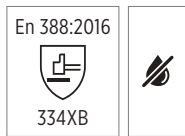
OILY AND VERY DIRTY ENVIRONMENTS	DRY ENVIRONMENT
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MAPA packaging solution

An offer to cover main risks

Complementary products

Krytech Arm 532 VM



Krytech Arm 538 VM



Chemical protection

Ultranitril 492



Temp-Dex 710 VM



Temp-Dex 720 VM

