

PROTECTION AND DEXTERITY



STC492E - Rev 6 - 06.04.99

CATEGORY III CERTIFICATION

CE 0334

ULTRANITRIL 491 - 492 - 494 - 495

CE-Type Examination Certificates

ULTRANITRIL 492 : 0072/014/162/10/1993/10506

ULTRANITRIL 491 : 0072/014/162/10/1993/10506/Ex01 10 93

ULTRANITRIL 494 : 0072/014/162/10/1993/10506/Ex09 06 97

ULTRANITRIL 495 : 0072/014/162/10/1993/10506/Ex02 10 93

issued by the approved body nr. 0072

I.F.T.H – Av. Guy de Collongue - F-69134 ECULLY CEDEX

Certificate of conformity of the Quality Assurance System

issued by the approved body nr. 0334

ASQUAL - 14, rue des Reculettes - F-75013 PARIS

These gloves conform to the provisions of Directive 89/686/EEC for protection against mechanical risks, chemicals and micro-organisms within the limit of the recommendations hereafter.

ULTRANITRIL 491 - 492 - 494 - 495

DESCRIPTION AND GENERAL PROPERTIES

Liquidproof gloves made of **nitrile** rubber.

Cotton flock-lining over an internal layer of **white nitrile** rubber.

Curved fingers and **contoured palm**.

Guaranteed **silicone-free**.

Conform to the FDA (American Food and Drug Administration) regulation
for **food contact**.

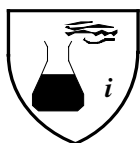
Glove Reference	Colour	External surface	Glove Length for all sizes (in cm)*	Thickness in wrist area (in mm)*	Sizes available	Corresponding european sizes
Ultranitril 491	Green	non-slip finish	37	0.45	6 - 6 ½	7.5
Ultranitril 492			32		7 - 7 ½	8
Ultranitril 494		pebble	33.5		8 - 8 ½	8.5
Ultranitril 495	Blue	non-slip finish	32		9 - 9 ½	9
					10 - 10 ½	9.5
					11 - 11 ½	10

* nominal values

Standard packaging :

- each pair or 10 pairs in printed polyethylene bag.
- 100 pairs per carton (Ultranitril 491 : 50 pairs per carton)

"CE"-TYPE EXAMINATION RESULTS



PROTECTION AGAINST CHEMICALS

According to EN 374 standard.

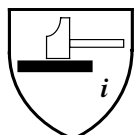
Liquidproof gloves.

Permeation data : see the enclosed chemical resistance chart.



PROTECTION AGAINST MICRO-ORGANISMS

According to EN 374 standard.



PROTECTION AGAINST MECHANICAL RISKS

Levels of performance according to EN 388 standard.

4 1 0 2
| | | |
| | | | → puncture resistance (0 to 4)
| | | | → tear resistance (0 to 4)
| | | | → blade cut resistance (0 to 5)
→ abrasion resistance (0 to 4)

ULTRANITRIL 491 - 492 - 494 - 495

SPECIFIC ADVANTAGES

- Dexterity and comfort thanks to anatomically designed hand shape and quality flocklining.
- Longer working life : excellent mechanical resistance (abrasion, puncture).
- Double layer process : enhanced chemical protection.
- High chemical resistance to hydrocarbon derivatives and alcohols; good chemical resistance to aromatic and chlorinated solvents.
- For food handling.
- Products manufactured in a MAPA factory which is ISO 9002 certified.
- Recommended for persons sensitized to natural rubber proteins.

MAIN FIELDS OF USE

- Manufacturing industries using cutting oils.
- Metal treatment using solvents.
- Manufacture and application of paint and varnish.
- Chemical treatments.
- Automotive industries.
- Cleaning printing press rollers.
- Timber treatment and finishing.
- Light engineering.
- Routine maintenance.
- Food preparation in the food processing and catering industries.
- Pesticides application.

INSTRUCTIONS FOR USE

For enhanced safety and service life of the gloves :

- Store the gloves in their original packaging protected from light and heat.
 - It is recommended to check that the gloves are suitable for the intended use, because the conditions of use at workplace may differ from the "CE"-type tests.
 - It is not recommended for persons sensitised to dithiocarbamates and thiazoles to use these gloves.
 - Put the gloves on dry, clean hands
 - Do not use the gloves in contact with a chemical for a duration in excess of the measured breakthrough time. Refer to the chemical resistance chart hereafter or contact the Technical Customer Service - MAPA PROFESSIONNEL in order to know this breakthrough time. Use 2 pairs alternatively when in long duration contact with a solvent.
 - Turn the cuff end down in order to prevent a hazardous chemical from dripping onto the arm.
 - Before taking off the gloves, clean them as appropriate :
 - in use with paints, pigments and inks : wipe with a clean cloth dampened with a suitable solvent, and rub over with a dry cloth
 - in use with a solvent (toluene, etc...) : rub over with a dry cloth
 - in use with acids or alkalies : thoroughly rinse the gloves under running water, and rub over with a dry cloth
- Caution : using the gloves or submitting them to another cleaning or laundering process can alter their performance levels.
- Ensure the inside of the gloves is dry before putting them on again.
 - Inspect the gloves for cracks or snags before reusing them.

ULTRANITRIL 491 - 492 - 494 - 495

CHEMICAL RESISTANCE CHART

These gloves are designed for protection against numerous chemicals such as alcohols, petroleum, aromatic or chlorinated solvents. They are not recommended for contact with ketones and nitrogen compounds. In order to know whether these gloves are appropriate for a given chemical, refer to the table hereafter or enquire to Mapa Professionnel's Technical Customer Service.

The results quoted in the table hereafter are relative to tests performed on the glove reference ULTRANITRIL 492.

CHEMICAL	Chemical Resistance Index	Degradation Index (1 to 4)	Permeation (EN 374)	
			Breakthrough time (minutes)	Permeation index (0 to 6)
Acetic acid 100%	-	1	51	2
Acetone	-	2	3	0
2-Butoxyethanol	++	4	247	5
Butyl acetate	+	3	28	1
Cyclohexane	++	4	> 360	5**
Cyclohexanone	=	2	30	1
Diethylamine	=	2	18	1
N-N Dimethyl acetamide	-	1	11	1
Dichloromethane	-	1	1	0
Dimethyl formamide (DMF)	-	1	10	0
Dimethyl sulphoxide (DMSO)	++	3	48	1
Ethanol	++	4	135	4
Ethyl acetate	=	2	12	1
Ethylene glycol *	++	4	NT	NT
Gasoil	++	4	> 480	6
Hydrochloric acid 35%	++	4	> 480	6
Isopropanol	++	4	> 360	5**
Methyl metacrylate	+	3	12	1
Methanol	++	4	50	2
Methyl T-butyl ether	++	4	243	5
Methyl ethyl ketone (MEK)	-	2	5	0
Methyl isobutyl ketone (MIBK)	=	2	18	1
N-Methyl-2-Pyrrolidone	-	1	40	2
2-Nitropropane	=	2	14	1
Phosphoric acid 75%	++	4	> 480	6
Sodium hydroxide 50%	++	4	> 480	6
Styrene	-	1	10	0
Sulphuric acid 95%	=	1	105	3
Tetrachlorethylene (perchlorethylene)	++	4	107	3
Tetrahydrofuran (THF)	-	1	4	0
Toluene	+	3	18	1
1,1,1 Trichlorethane	+	2	46	2
Trichlorethylene	-	2	4	0
Unleaded petrol (Optane 98 Elf)	++	4	99	3
Vinyl acetate	=	3	9	0
White spirit (Exxol D40)	++	4	> 480	6
Xylene	++	3	31	2

NT: not tested yet
hours

* : Chemical resistance index determined from degradation result only

** tests discontinued after 6

Chemical Resistance Index :

- ++ can be used for **long duration contact**
(limited to breakthrough time)
- + can be used for **short repeated contacts**
(for a total duration not exceeding the breakthrough time)
- = can be used against **splashes**
- **not recommended**

Degradation Index : a high index indicates a low degradation of the gloves in contact with the chemical.

Breakthrough Time : permeation test performed on the palm of the glove in MAPA laboratories, unless otherwise specified.

Permeation Index : a high index indicates a long breakthrough time .