
STC492E - Rev 7- 24.04.06

**CERTIFICATION CATEGORY III**

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.

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92205 NEUILLY SUR SEINE Cedex - FRANCE
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**MAPA (U.K.) Ltd**
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MAPA® PROFESSIONNEL

# 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**.

**Thickness** (in wrist area) **:** 0.45 **in mm (**nominal values)

| Glove Reference | Colour | External surface | Glove Length for all sizes (in cm)* | Sizes available |
|---|---|---|---|---|
| **Ultranitril 491** | Green | non-slip finish | 37 | 6-7-8-9 |
| **Ultranitril 492** | | | 32 | 6-7-8-9-10-11 |
| **Ultranitril 494** | | pebble | 33.5 | 6-7-8-9-10 |
| **Ultranitril 495** | Blue | non-slip finish | 32 | 6-7-8-9-10 |

* 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

**AJKL**

**PROTECTION AGAINST CHEMICALS**
According to **EN 374** standard.
Liquidproof gloves.
Permeation data : see the enclosed chemical resistance chart

**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)**

Acceptable Quality Level **(AQL) : 0.65 %**

**PROTECTION AGAINST MICRO-ORGANISMS**
According to **EN 374** standard.

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## 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.
  to aromatic and chlorinated solvents.
- Safe grip of slippery objects thanks to non-slip finish
- Recommended for persons sensitized to natural rubber proteins.
- Products manufactured in a MAPA factory which is ISO 9001 certified.

## 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, humidity 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.
- Persons sensitised to dithiocarbamates and thiazoles should not 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 (diluents, 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 : improper use of the gloves or submitting them to any cleaning or laundering process which is not specifically recommended 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.

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# ULTRANITRIL 491 - 492 - 494 - 495

## CHEMICAL RESISTANCE CHART

These gloves are designed for protection against numerous chemicals such as alcohols, petroleum. They are not recommended for contact with ketones and nitrogen compounds. In order to ensure that 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 | CAS Nr | Chemical Resistance Index | Degradation Index (1 to 4) | Permeation (EN 374) Breakthrough time (minutes) | Permeation index (0 to 6) |
|---|---|---|---|---|---|
| Acetic acid 100%* | 64-19-7 | = | ND | 93 | 3 |
| Acetone **B** | 67-64-1 | - | 2 | 3 | 0 |
| Ammonium hydroxide 30%* | 1336-21-6 | = | ND | 374 | 5 |
| Aniline* | 62-53-3 | - | 1 | 88 | 3 |
| Benzene* | 71-43-2 | - | ND | 18 | 1 |
| 2-Butoxyethanol | 111-76-2 | + + | 4 | 236 | 5 |
| Butyl acetate | 123-86-4 | = | 3 | 25 | 1 |
| t-Butyl methylether | 1634-04-4 | + | 4 | 240 | 5 |
| Carbon tetrachloride* | 56-23-5 | + | ND | 352 | 5 |
| Cyclohexane | 110-82-7 | + + | 4 | > 360 | 5** |
| Cyclohexanone | 108-94-1 | = | 2 | 29 | 1 |
| 1,3-Dichlorobenzene* | 541-73-1 | - | 1 | 36 | 2 |
| 1,2-Dichloroethane* | 107-06-2 | - | 1 | 7 | 0 |
| Diethylether* | 60-29-7 | + | 4 | 58 | 2 |
| Diesel fuel | 68334-30-5 | + + | 4 | > 480 | 6 |
| Dichloromethane (methylene chloride) **D** | 75-09-2 | - | 1 | 1 | 0 |
| Diethylamine **G** | 109-89-7 | = | 2 | 17 | 1 |
| N-N Dimethyl acetamide | 127-19-5 | - | 1 | 10 | 1 |
| Dimethyl sulphoxide (DMSO) | 67-68-5 | + | 3 | 47 | 1 |
| Ethanol | 64-17-5 | + + | 4 | 130 | 4 |
| 2-Ethoxyethyl acetate* | 111-15-9 | + | 2 | 103 | 3 |
| 1,3- Ethoxy propionate* | 763-69-9 | + + | ND | 123 | 4 |
| Ethyl acetate **I** | 141-78-6 | - | 2 | 6 | 0 |
| n-Heptane **J** | 142-82-5 | + + | ND | >480 | 6 |
| Hexane* | 110-53-3 | + + | ND | >480 | 6 |
| Hydrochloric acid 35% | 7647-01-0 | + + | 4 | > 480 | 6 |
| Isopropanol | 67-63-0 | + + | 4 | > 360 | 5** |
| Kérosène* | 8008-20-6 | + + | 4 | >480 | 6 |
| Methanol **A** | 67-56-1 | + | 4 | 49 | 2 |
| Methyl metacrylate | 80-62-6 | = | 3 | 11 | 1 |
| Methyl ethyl ketone (MEK) | 78-93-3 | - | 2 | 5 | 0 |

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## CHEMICAL RESISTANCE CHART

| CHEMICAL | CAS Nr | Chemical Resistance Index | Degradation Index (1 to 4) | Permeation (EN 374) Breakthrough time (minutes) | Permeation index (0 to 6) |
|---|---|---|---|---|---|
| Methyl isobutyl ketone (MIBK) | 108-10-1 | = | 2 | 15 | 1 |
| N-Methyl-2-Pyrrolidone | 872-50-4 | - | 1 | 35 | 2 |
| Naphta* | 8030-30-6 | + + | ND | > 480 | 6 |
| Nitric acid 50%* | 7697-37-2 | = | 3 | 184 | 4 |
| Nitric acid 70%* | 7697-37-2 | = | ND | 38 | 2 |
| Petroleum distillate (Naphta) | 64742-47-8 | + + | 4 | >480 | 6 |
| Phenol (saturated)* | 108-95-2 | + | 2 | 223 | 4 |
| Phosphoric acid 75% | 7664-38-2 | + + | 4 | > 480 | 6 |
| Potassium hydroxyde 50%* | 1310-58-3 | + + | ND | >480 | 6 |
| Sodium hydroxide 40% **K** | 1310-73-2 | + + | ND | >480 | 6 |
| Sodium hydroxide 50% | 1310-73-2 | + + | 4 | > 480 | 6 |
| Styrene | 100-42-5 | - | 1 | 9 | 0 |
| Sulphuric acid 50%* | 7664-93-9 | + + | 4 | > 480 | 6 |
| Sulphuric acid 96% **L** | 7664-93-9 | = | 1 | 80 | 3 |
| Tetrachlorethylene (perchlorethylene) | 127-18-4 | + + | 4 | 103 | 3 |
| Tetrahydrofuran (THF) **H** | 109-99-9 | - | 1 | 4 | 0 |
| Toluene **F** | 108-88-3 | = | 3 | 16 | 1 |
| 1,1,1 Trichlorethane | 71-55-6 | = | 2 | 45 | 2 |
| Trichlorethylene | 79-01-6 | - | 2 | 4 | 0 |
| Unleaded petrol* | 8006-61-9 | + + | 4 | > 480 | 6 |
| Vinyl acetate | 108-05-4 | = | 3 | 9 | 0 |
| Xylene | 1330-20-7 | = | 3 | 29 | 1 |

*: Tested according to ASTM F739 on a glove of identical nature and thickness at ambient temperature
NT: not tested yet ** tests discontinued after 6 hours

**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 at 30° C in MAPA laboratories, unless otherwise specified.

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

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