



STC420E - Rev 4 - 22.02.06

**CERTIFICATION CATEGORY III**

**CE 0334**

# **TECHNIC 420 - 450**

**CE-Type Examination Certificates**

**TECHNIC 420 : 0072/014/162/05/94/10514**

**TECHNIC 450 : 0072/014/162/05/94/10514/Ex02 05 94**

**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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**MAPA®**  
**PROFESSIONNEL**

# TECHNIC 420 - 450

## DESCRIPTION AND GENERAL PROPERTIES

Liquidproof gloves made of **black neoprene (polychloroprene)** rubber.

**Cotton flock-lining** over an internal layer of **white natural latex**.

**Curved fingers** and **contoured palm**.

**Non-slip finish** in palm and fingers area.

Surface treatment with **silicone**.

| Reference   | Glove Length<br>for all sizes<br>(in cm)* | Thickness<br>in wrist<br>area<br>(in mm)* | Sizes<br>available              | Standard packaging<br>Number of pairs |            |
|-------------|-------------------------------------------|-------------------------------------------|---------------------------------|---------------------------------------|------------|
|             |                                           |                                           |                                 | per printed<br>PE bag                 | per carton |
| Technic 420 | 31                                        | 0.75                                      | 6 - 6 ½<br>7 - 7 ½              | 1                                     | 100        |
| Technic 450 | 41                                        |                                           | 8 - 8 ½<br>9 - 9 ½<br>10 - 10 ½ | 1                                     | 50         |
|             |                                           |                                           |                                 |                                       |            |
|             |                                           |                                           |                                 |                                       |            |

\* nominal values

## "CE"-TYPE EXAMINATION RESULTS



### PROTECTION AGAINST CHEMICALS

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

**AJKL**



### PROTECTION AGAINST MECHANICAL RISKS

Levels of performance  
according to **EN 388** standard

**3 1 2 1**  
| | | |  
| | | | ↪ 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.

# **TECHNIC 420 - 450**

## **SPECIFIC ADVANTAGES**

- Freedom of movement : flexibility of neoprene and comfort of cotton flocklining.
- Excellent grip thanks to raised pattern.
- Multi-purpose chemical resistance : acids, aliphatic solvents.
- Resistant to sunlight and ozone.
- Products manufactured in a MAPA factory which is ISO 9001 certified.

## **MAIN FIELDS OF USE**

- Handling in chemical industry
- Manufacture of electrical accumulators
- Application of fertilizer
- Leather treatment
- Manufacture of applied abrasives
- Manufacture and installation of ovens
- Glue manufacturing

## **INSTRUCTIONS FOR USE**

For enhanced safety and service life of the gloves :

- Store the gloves in their original packaging at a temperature not below 5°C.
  - 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 sensitized to natural latex, thiazoles and dithiocarbamates 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 (diluent, 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 a 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.

# TECHNIC 420 - 450

## CHEMICAL RESISTANCE CHART

These gloves are designed for protection against numerous chemicals such as acids, bases, alcohols, petroleum solvents. 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.

| CHEMICAL                                       | CAS Nr    | Chemical Resistance Index | Degradation Index (1 to 4) | Permeation Breakthrough time (minutes) | Permeation index (EN 374) (0 to 6) |
|------------------------------------------------|-----------|---------------------------|----------------------------|----------------------------------------|------------------------------------|
| Acetic acid 100%                               | 64-19-7   | =                         | 4                          | 182                                    | 4                                  |
| Acetone <b>B</b>                               | 67-64-1   | =                         | 3                          | 16                                     | 1                                  |
| Acetonitrile <b>C</b>                          | 75-05-8   | =                         | NT                         | 11                                     | 1                                  |
| 2-Butoxyethanol                                | 111-76-2  | ++                        | 4                          | 103                                    | 3                                  |
| Butyl acetate                                  | 123-86-4  | =                         | 2                          | 22                                     | 1                                  |
| T-butyl methyl ether                           | 1634-04-4 | =                         | 2                          | 20                                     | 1                                  |
| Cyclohexane                                    | 110-82-7  | +                         | 3                          | 40                                     | 2                                  |
| Dichloromethane <b>D</b>                       | 75-09-2   | -                         | 2                          | 3                                      | 0                                  |
| Diethylamine <b>G</b>                          | 109-89-7  | -                         | 2                          | 7                                      | 0                                  |
| N-N Dimethylacetamide* (DMAC)                  | 127-19-5  | +                         | 3                          | 32                                     | 2                                  |
| Dimethyl formamide (DMF)                       | 68-12-2   | +                         | 3                          | 48                                     | 2                                  |
| Dimethyl sulfoxide (DMSO)                      | 67-68-5   | ++                        | 4                          | > 360                                  | 5**                                |
| Ethanol                                        | 64-17-5   | ++                        | 4                          | 135                                    | 4                                  |
| Ethyl acetate <b>I</b>                         | 141-78-6  | =                         | 3                          | 13                                     | 1                                  |
| n-Heptane <b>J</b>                             | 142-82-5  | +                         | NT                         | 33                                     | 2                                  |
| Hexane*                                        | 110-54-3  | ++                        | 4                          | 30                                     | 1                                  |
| Hydrochloric acid 35%                          | 7647-01-0 | ++                        | 4                          | > 480                                  | 6                                  |
| Hydrofluoric acid 48%*                         | 7664-39-3 | =                         | NT                         | 15                                     | 1                                  |
| Hydrofluoric acid gas 99%* (hydrogen fluoride) | 7664-39-3 | =                         | NT                         | 25                                     | 1                                  |
| Isopropanol                                    | 67-63-0   | ++                        | 4                          | 288                                    | 5                                  |
| Methanol <b>A</b>                              | 67-56-1   | ++                        | 4                          | 70                                     | 3                                  |
| Methyl ethyl ketone (MEK)                      | 78-93-3   | -                         | 2                          | 9                                      | 0                                  |

# TECHNIC 420 - 450

## 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   | =                         | 3                          | 24                          | 1                         |
| Methyl methacrylate                   | 80-62-6    | =                         | 3                          | 9                           | 0                         |
| N-Methyl-2 Pyrrolidone                | 872-50-4   | +                         | 3                          | 55                          | 2                         |
| Naphta                                | 64742-47-8 | ++                        | 4                          | 123                         | 4                         |
| Nitric acid 68%                       | 7697-37-2  | ++                        | 4                          | > 480                       | 6                         |
| Nitrobenzene*                         | 98-95-5    | =                         | 2                          | 41                          | 2                         |
| 2-Nitropropane                        | 79-46-9    | =                         | 3                          | 30                          | 1                         |
| Phosphoric acid 75%                   | 7664-38-2  | ++                        | 4                          | > 480                       | 6                         |
| Sodium hydroxide 40% <b>K</b>         | 1310-73-2  | ++                        | NT                         | > 480                       | 6                         |
| Styrene                               | 100-42-5   | =                         | 2                          | 13                          | 1                         |
| Sulphuric acid 96% <b>L</b>           | 7664-93-9  | =                         | 4                          | 225                         | 4                         |
| Tetrachlorethylene (perchlorethylene) | 127-18-4   | -                         | 2                          | 8                           | 0                         |
| Tetrahydrofurane (THF) <b>H</b>       | 109-99-9   | -                         | 1                          | 8                           | 0                         |
| Toluene <b>F</b>                      | 108-88-3   | -                         | 1                          | 6                           | 0                         |
| 1,1,1 Trichlorethane                  | 71-55-6    | =                         | 2                          | 20                          | 1                         |
| Trichlorethylene                      | 79-01-6    | -                         | 2                          | 5                           | 0                         |
| Vinyl acetate                         | 108-05-4   | =                         | 3                          | 7                           | 0                         |
| Xylene                                | 1330-20-7  | -                         | 1                          | 12                          | 1                         |

\*\* test discontinued after 6 hours      NT: not tested yet

\* : According to ASTM F739 test method

### 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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## "CE" DECLARATION OF CONFORMITY

The Company

**MAPA s.n.c.**  
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92205 Neuilly-sur-Seine Cedex - France

declares that the following MAPA PROFESSIONNEL protective gloves :

|                     |                    |
|---------------------|--------------------|
| <b>NEOPRENO 419</b> | <b>TECHNIC 401</b> |
| <b>TECHNIC 420</b>  | <b>TECHNIC 450</b> |

conform to the gloves which are the subject of **"CE" certificates of conformity**

**NEOPRENO 419: 0072/014/162/05/94/10516**  
**TECHNIC 401 : 0072/014/162/05/94/10517**  
**TECHNIC 420 : 0072/014/162/05/94/10514**  
**TECHNIC 450 : 0072/014/162/05/94/10514-EX 02/05/94**

issued by the **notified body nr 0072**

**I.F.T.H**

Av. Guy de Collongue - F-69132 ECULLY CEDEX

They are manufactured under a certified **Quality Assurance System** issued by the **notified body nr 0334**

**ASQUAL**

14, rue des Reculettes  
F-75013 PARIS

|                                   |
|-----------------------------------|
| <b>CERTIFICATION CATEGORY III</b> |
|-----------------------------------|

They conform to the provisions of directive **89/686/CEE**. They are designed for protection against **chemicals, micro-organisms and mechanical risks**, as specified in Article 8-4.(a) within the limits of use described in the technical documentation.

They are manufactured in conformance with the following **European Standards :**  
**EN420, EN 374 and EN 388**

Prepared at Neuilly-sur-Seine, on November 18, 2005

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