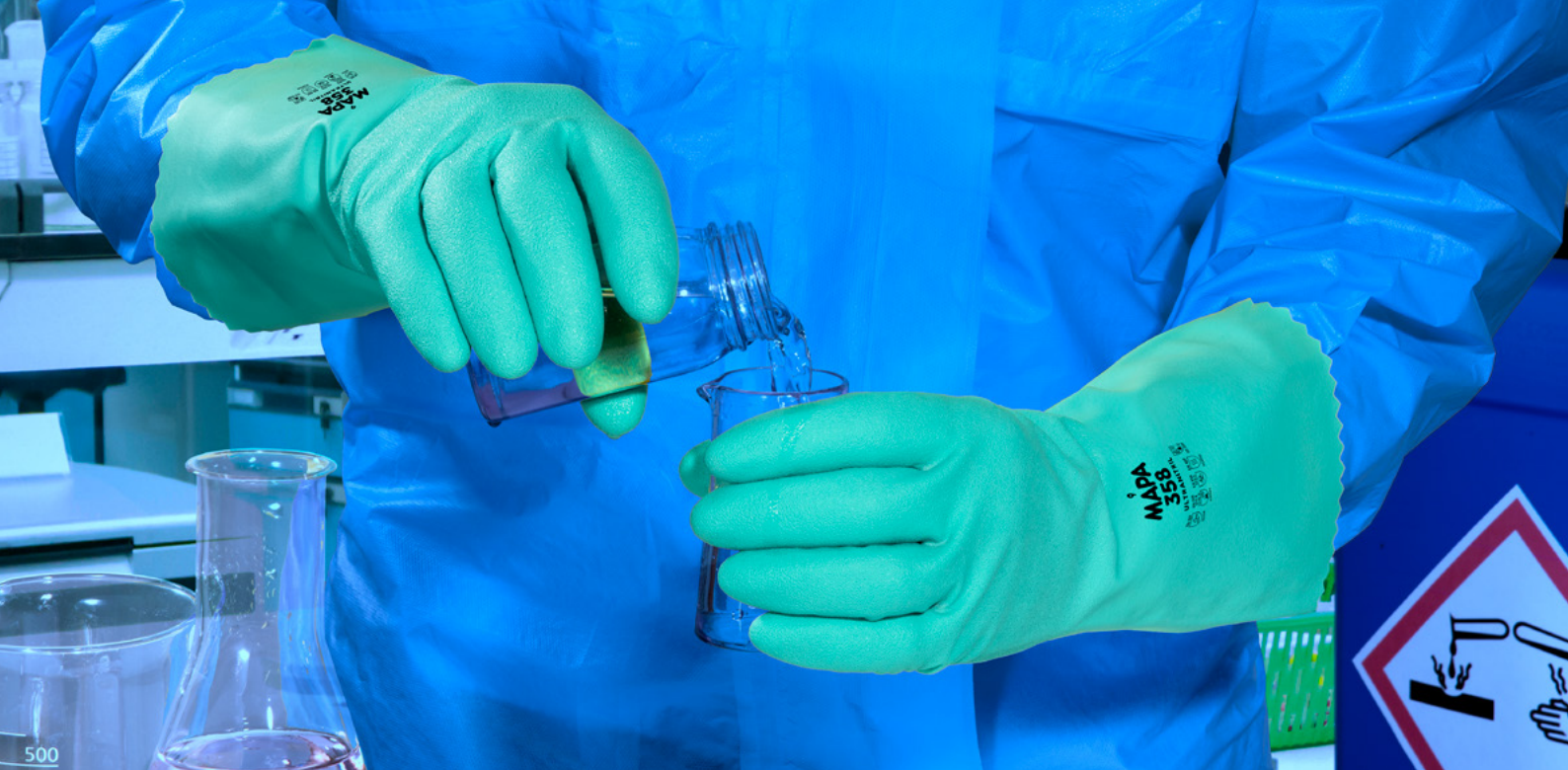




# CHEMICAL PROTECTION SELECTION GUIDE

**Around 30% of legitimate occupational illnesses  
would be of chemical origin.**

Source: INRS

**CHEMICAL INDUSTRY**

**PHARMACEUTICALS**

**MAINTENANCE  
AND HYGIENE**

**FOOD INDUSTRY**

**CONSTRUCTION**

**AUTOMOTIVE INDUSTRY**



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**MAPA<sup>®</sup>**  
PROFESSIONAL

The future is  
in our hands

Choosing the right glove depends on multiple factors: the chemical substance and its concentration, the type of contact, the wear time, and any additional protection that may be required. Below is a selection of gloves suitable for the given risks.

| OIL AND SOLVENTS                                                  |                                                                                                                       |                                                                                                                        |                                                                                                                             |                                                                                                                                           |                                                                                                                          |                                                                                                                |                                                                                                                          |                                                                                                                                                            |                                                                                                                                |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Exposure                                                          | Oil                                  |                                                                                                                        | Hydrocarbon                              |                                                                                                                                           | Trichloroethylene<br>Dichloromethane  | Xylene, Toluene<br>Benzene  | Acetone<br>MEK / MIBK                 | Mix Acetone /<br>Toluene                                                |                                                                                                                                |
|                                                                   |  J                                 |                                                                                                                        |  D                                       |                                                                                                                                           |  F                                    |                                                                                                                |  B                                    |  F + B                                                                  |                                                                                                                                |
| <b>SPLASHES</b><br>low exposure<br>Chemical contact<br><30 min    |  <b>997</b><br>Disposable<br>Nitrile |  <b>977</b><br>Disposable<br>Nitrile  |  <b>999</b><br>Disposable<br>Nitrile     |  <b>977</b><br>Disposable<br>Nitrile                   |                                                                                                                          |  <b>493</b><br>Nitrile      |  <b>260</b><br>Natural latex          |  <b>299</b><br>Natural latex                                            |  <b>339</b><br>Neoprene*<br>Textile support |
| <b>LOW</b><br>exposure<br>Chemical contact<br><60 min             |  <b>980</b><br>Disposable<br>Nitrile |                                                                                                                        |                                                                                                                             |  <b>980</b><br>Disposable<br>Nitrile                   |                                                                                                                          |  <b>480</b><br>Nitrile      |                                                                                                                          | <b>DID YOU KNOW?</b><br>Every mixture of<br>chemical products<br>multiplies the risks.<br><br><b>Ask your Mapa Expert<br/>for professional<br/>advice!</b> |                                                                                                                                |
| <b>MEDIUM</b><br>exposure<br>Chemical contact<br>60 min - 240 min |  <b>472</b><br>Nitrile               |  <b>475</b><br>Nitrile                |  <b>519</b><br>Nitrile                   |                                                                                                                                           |  <b>468</b><br>Fluoroelastomer        |                                                                                                                |                                                                                                                          |                                                                                                                                                            |                                                                                                                                |
| <b>HIGH</b><br>exposure<br>Chemical contact<br>>240 min           |  <b>492</b><br>Nitrile              |  <b>458<sup>(1)</sup></b><br>Nitrile |  <b>381</b><br>Nitrile<br>Textile support |  <b>358<sup>(1)</sup></b><br>Nitrile<br>Textile support |  <b>480</b><br>Nitrile                |  <b>485</b><br>Nitrile     |  <b>458<sup>(1)</sup></b><br>Nitrile |  <b>358<sup>(1)</sup></b><br>Nitrile<br>Textile support                |                                                                                                                                |

| CORROSIVE CHEMICALS                                               |                                                                                                                         |                                                                                                                                            |                                                                                                                                 |                                                                                                                          |                                                                                                                           |                                                                                                                                                                                                    |                                                                                                                                |                                                                                                                                                   |                                                                                                                                        |                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure                                                          | Ammonia                              |                                                                                                                                            | Alkalis, Detergents                        |                                                                                                                          |                                                                                                                           | Hydrofluoric Acid (HF)   |                                                                                                                                | Concentrated Acids (except HF)                               |                                                                                                                                        |                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                        |
|                                                                   |  O                                   |                                                                                                                                            |  K                                         |                                                                                                                          |                                                                                                                           |  S (40%)                                                                                                      | 50%-100%                                                                                                                       |  L, M, N                                                     |                                                                                                                                        |                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                        |
| <b>SPLASHES</b><br>low exposure<br>Chemical contact<br><30 min    |  <b>999</b><br>Disposable<br>Nitrile |                                                                                                                                            |  <b>995</b><br>Disposable<br>Natural latex |                                                                                                                          |                                                                                                                           |                                                                                                                                                                                                    |                                                                                                                                |  <b>420</b><br>Neoprene*<br>Natural latex                    |  <b>994</b>                                       |  <b>985</b><br>Disposable<br>Triopolymer:<br>natural latex,<br>neoprene*, nitrile<br>Length : 29 cm |  <b>124</b><br>Natural latex<br> <b>115</b>  <b>117</b> |
| <b>LOW</b><br>exposure<br>Chemical contact<br><60 min             |  <b>472</b><br>Nitrile               |  <b>475</b><br>Nitrile                                  |  <b>997</b><br>Disposable<br>Nitrile         |  <b>977</b><br>Disposable<br>Nitrile |  <b>980</b><br>Disposable<br>Nitrile | <div>DID YOU KNOW?<br/>0.20 mm thickness, with<br/>a 30 cm extended cuff<br/>offering strong resistance<br/>and enhanced chemical<br/>protection</div>                                             |                                                                                                                                |  <b>341</b><br>Neoprene*<br>Natural latex<br>Textile support |  <b>410</b><br>Nitrile and PVC<br>Textile support |  <b>405</b><br>Neoprene*<br>Natural latex                                                           |  <b>351</b><br>PVC<br>Textile support                                                                                                                                                                                             |
| <b>MEDIUM</b><br>exposure<br>Chemical contact<br>60 min - 240 min |  <b>495</b><br>Nitrile               |  <b>492</b><br>Nitrile                                  |  <b>458<sup>(1)</sup></b><br>Nitrile         |  <b>175</b><br>Natural latex          |  <b>115</b><br>Natural latex         |                                                                                                                                                                                                    |                                                                                                                                |  <b>117</b>                                                  |                                                                                                                                        |  <b>517</b><br>Triopolymer: natural<br>latex, neoprene*, nitrile                                    |                                                                                                                                                                                                                                                                                                                        |
| <b>HIGH</b><br>exposure<br>Chemical contact<br>>240 min           |  <b>493</b><br>Nitrile               |  <b>358<sup>(1)</sup></b><br>Nitrile<br>Textile support |  <b>415</b><br>Neoprene*<br>Natural latex    |  <b>260</b><br>Natural latex        |  <b>301</b><br>Natural latex         |  <b>401</b><br>Neoprene*<br>Natural latex                                                                     |  <b>420</b><br>Neoprene*<br>Natural latex |  <b>339</b><br>Neoprene*<br>Textile support                  |  <b>407</b><br>Neoprene*                          |                                                                                                                                                                                          |  <b>650</b><br>Butyl<br>Textile support                                                                                                                                                                                           |



# STANDARD EN ISO 374-1

## PROTECTIVE GLOVES AGAINST CHEMICALS

The EN ISO 374-1 chemical standard classifies chemical gloves into **3 categories** and is based on three tests: **penetration, permeation and degradation tests**.

### ONE PICTOGRAM AND THREE TYPES OF GLOVES

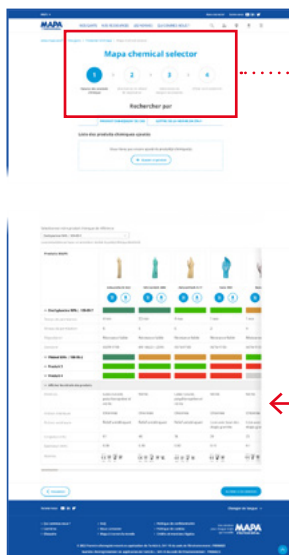
| Type of gloves | Requirement                                                                                                                                     | Marking (example)                                                                                                      |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Type A         | Penetration resistance (EN ISO 374-2)<br>+ Breakthrough time <b>≥ 30 min</b><br>for at least <b>6 chemicals</b> in the new list<br>(EN 16523-1) | EN ISO 374-1 / Type A<br><br>AJKLPR |
| Type B         | Penetration resistance (EN ISO 374-2)<br>+ Breakthrough time <b>≥ 30 min</b><br>for at least <b>3 chemicals</b> in the new list<br>(EN 16523-1) | EN ISO 374-1 / Type B<br><br>JKL    |
| Type C         | Penetration resistance (EN ISO 374-2)<br>+ Breakthrough time <b>≥ 10 min</b><br>for at least <b>1 chemical</b> in the new list<br>(EN 16523-1)  | EN ISO 374-1 / Type C<br>          |

More information about the standard on [www.mapa-pro.com](http://www.mapa-pro.com) > Standards

### NEW DISCOVER OUR CHEMICAL GLOVES SELECTION TOOL



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



1

Enter your **chemical substance** (CAS number, letter from EN ISO 374-1)

2

Enter your **conditions of use** (type of contact, exposure time)

3

Enter your **secondary needs** (thermal, mechanical...)

4

**Narrow down the results** using product features