



CHEMICAL PROTECTION SELECTION GUIDE

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

Source: INRS

GLASS INDUSTRY

CLEANING

FOOD INDUSTRY

AEROSPACE

**PAINT / VARNISH / INK
INDUSTRY**

**AGROCHEMICAL
INDUSTRY**



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that works

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Choice depends on chemical substance & chemical concentration, type of contact, wear time and other protection that could be needed.
Below are some examples of gloves suitable for the given risks.

OIL AND SOLVENT										
Exposure	Oil 		Hydrocarbon 		Trichloroethylene Dichloromethane 	Xylene, Toluene Benzene 	Acetone MEK / MIBK 	Mix Acetone / Toluene 		
	O 		J 		D 	F 	B 	F + B 		
SPLASHES LOW exposure Chemical contact <30 min	 >997 Disposable Nitrile	 >977 Disposable Nitrile	 >987 Disposable Nitrile	 >977 Disposable Nitrile		 >493 Nitrile	 >260 Natural latex	 >299 Natural latex	 >339 Neoprene* Textile support	
LOW exposure Chemical contact <60 min				 >402 Neoprene* Textile support A unique chemical & thermal glove that offers extended flame resistance performance against flash fires.		 >480 Nitrile		DID YOU KNOW? Every mixture of chemical products multiplies the risks. Ask your Mapa Expert for professional advice!		
MEDIUM exposure Chemical contact 60 min - 240 min	 >472 Nitrile	 >475 Nitrile	 >485 Nitrile		 >468 Fluoroelastomer					
HIGH exposure Chemical contact >240 min	 >492 Nitrile	 >381 Nitrile Textile support	 >480 Nitrile	 >377 Nitrile Textile support		 >344 Fluoroelastomer Textile support	 >651 Butyle			

CORROSIVE CHEMICALS													
Exposure	Ammonia 		Alkali, Detergents 			Hydrofluoric Acid (HF) 		Concentrated Acids except HF 					
	O 		K 			S (40%) 	50%-100%	L, M, N 					
SPLASHES LOW exposure Chemical contact <30 min	 >999 Disposable Nitrile		 >995 Disposable Natural latex				 >420 Neoprene*	 >994 Disposable Tripolymer: natural latex, neoprene*, nitrile	 >124 Natural latex				
LOW exposure Chemical contact <60 min	 >472 Nitrile	 >475 Nitrile	 >935 Disposable Vinyl Nitrile	 >997 Disposable Nitrile	 >977 Disposable Nitrile		 >341 Neoprene* Textile support	 >410 Nitrile PVC High-viz textile support Designed for enhanced protection against acids and cut risks.	 >405 ACTIVATED Latex, Neoprene* Permanent antimicrobial action, partnered with Pylote.	 >351 PVC Textile support			
MEDIUM exposure Chemical contact 60 min - 240 min	 >495 Nitrile	 >492 Nitrile	 >175 Natural latex	 >115 Natural latex		 >517 Tripolymer: natural latex, neoprene*, nitrile		 >420 Neoprene*	 >382 Neoprene* Textile support				
HIGH exposure Chemical contact >240 min	 >493 Nitrile		 >415 Neoprene*	 >260 Natural latex	 >301 Latex Textile support	 >410 Nitrile PVC High-viz textile support	 >401 Neoprene*	 >420 Neoprene*	 >402 Neoprene* Textile support	 >339 Neoprene* Textile support	 >407 Neoprene*	 >402 Neoprene* Textile support	 >650 Butyle Textile support

*Neoprene (polychloroprene)






STANDARD EN ISO 374:2016

PROTECTIVE GLOVES AGAINST CHEMICALS

The EN ISO 374:2016 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

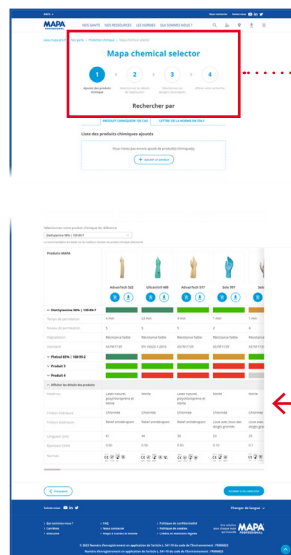
Type of gloves	Requirement	Marking (example)
Type A	Penetration resistance (EN 374-2) + Breakthrough time ≥ 30 min for at least 6 chemicals in the new list (EN 16523-1)	EN ISO 374-1 / Type A  AJKLPR
Type B	Penetration resistance (EN 374-2) + Breakthrough time ≥ 30 min for at least 3 chemicals in the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

More information about the standard on www.mapa-pro.com > Standards

NEW DISCOVER OUR CHEMICAL GLOVES SELECTOR TOOL



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



- 1 Enter your **chemical substance** (CAS number, letter from EN ISO 374-1)
- 2 Enter **conditions of use** (type of contact, exposure time)
- 3 Enter **secondary needs** (thermal, mechanical...)
- 4 **Narrow down the results** using products' features

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