

Ultranitril 493

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
1,1,1-Trichloroethane 99%	71-55-6	54	2	EN 374-3:2003	1	-
2-Nitropropane 99%	79-46-9	NT	NT		1	NA
2-Propanol (Isopropanol) 99%	67-63-0	480	6	EN 374-3:2003	4	++
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Ammonium hydroxide solution 25%	1336-21-6	480	6	EN 16523-1:2015	4	++
Butyl Acetate 99%	123-86-4	51	2	EN 374-3:2003	1	-
Cyclohexane 99%	110-82-7	480	6	EN 374-3:2003	4	++
Cyclohexanone 99%	108-94-1	88	3	EN 374-3:2003	1	-
Dichloromethane (Methylene Chloride) 99%	75-09-2	2	0	EN 374-3:2003	1	-
Diethylamine 98%	109-89-7	51	2	EN 16523-1:2015	0	NA
Dimethylformamide 99%	68-12-2	NT	NT		1	NA
Ethanol 95%	64-17-5	235	4	EN 374-3:2003	3	++
Formaldehyde 37%	50-00-0	480	6	EN 16523-1:2015	4	++
Hydrogen peroxide 30%	7722-84-1	480	6	EN 16523-1:2015	4	++
Methanol 99%	67-56-1	41	2	EN 16523-1:2015	2	=
Methanol 99%	67-56-1	106	3	EN 16523-1:2015	2	+
Methyl Ethyl Ketone (2-Butanone) 99%	78-93-3	7	0	EN 374-3:2003	1	-
n-Heptane 99%	142-82-5	480	6	EN 16523-1:2015	4	++
N-methyl-2-Pyrrolidone 99%	872-50-4	NT	NT		1	NA
N-N dimethyl acetamide 99%	127-19-5	18	1	EN 374-3:2003	1	-
n-undecane 99%	1120-21-4	480	6	EN 374-3:2003	NT	NA
Propylene Glycol 99%	57-55-6	480	6	EN 374-3:2003	NT	NA
Propylene Glycol Methyl Ethyl Acetate (PGMEA) 99%	108-65-6	183	4	EN 374-3:2003	NT	NA
Propylene Glycol Monomethyl Ether 99%	107-98-2	360	5	EN 374-3:2003	NT	NA
Sodium hydroxide 20%	1310-73-2	480	6	EN 374-3:2003	NT	NA

*not normalized result

Overall Chemical Protection Rating

Protection rating is determined by taking into account the effects of both permeation and degradation in an attempt to provide users with an overall protection guideline when using our glove products against specific chemicals.

- Used for **high chemical exposure** or chemical immersion, limited to breakthrough time based on a working day.
- Used for **repeated chemical contact**, limited to total chemical exposure i.e. : accumulative breakthrough time based on a working day.
- **Splash protection only**, on chemical exposure the gloves should be discarded and new gloves worn as soon as possible.
- **Not recommended**, these gloves are deemed unsuitable for work with this chemical.

 NT : Not tested

 NA : Not applicable because not fully tested (only degradation OR permeation results)

The chemical test data and overall chemical protection rating should not be used as the absolute basis for glove selection. Actual in-use conditions may vary glove performance from the controlled conditions of laboratory tests. Factors other than chemical contact time



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Sodium hydroxide 40%	1310-73-2	480	6	EN 16523-1:2015	4	++
Sodium hydroxide 50%	1310-73-2	480	6	EN 374-3:2003	NT	NA
Styrene 99%	100-42-5	16	1	EN 16523-1:2015	NT	NA
Sulfuric acid 96%	7664-93-9	181	4	EN 16523-1:2015	NT	NA
t-Butyl Methyl Ether 98%	1634-04-4	NT	NT		4	NA
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	176	4	EN 374-3:2003	NT	NA
Toluene 99%	108-88-3	31	2	EN 16523-1:2015	0	NA
Xylene 99%	1330-20-7	56	2	EN 374-3:2003	1	-
Xylene 99%	1330-20-7	56	2	EN 374-3:2003	2	=

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