Mapa Chemical

Technic NS-450

Chemical Product	CAS #	BTT (minutes)	Permeation level	Standard	Degradation level	Rating
1-Octanol 99%	111-87-5	217	4	ASTM F739	4	++
1,1,1-Trichloroethane 99%	71-55-6	18	1	EN 374-3:2003	1	-
2-Butoxyethanol (Butyl Cellusolve) 99%	111-76-2	100	3	EN 374-3:2003	3	++
2-Nitropropane 99%	79-46-9	26	1	EN 374-3:2003	3	=
2-Propanol (Isopropanol) 99%	67-63-0	286	5	EN 374-3:2003	4	++
Acetic acid 10%	64-19-7	NT	NT		4	NA
Acetic acid 50%	64-19-7	NT	NT		4	NA
Acetic acid 99%	64-19-7	180	4	EN 374-3:2003	4	++
Acetone 99%	67-64-1	10	0	ASTM F739	4	=
Acetonitrile 99%	75-05-8	28	1	ASTM F739	4	+
Butyl Acetate 99%	123-86-4	22	1	EN 374-3:2003	1	-
Cyclohexane 99%	110-82-7	38	2	EN 374-3:2003	3	+
Dichloromethane (Methylene Chloride) 99%	75-09-2	4	0	ASTM F739	1	-
Diethylamine 98%	109-89-7	9	0	ASTM F739	1	-
Dimethylformamide 99%	68-12-2	53	2	ASTM F739	4	+
Dimethylsulfoxide 99%	67-68-5	360	5	EN 374-3:2003	4	++
Ethanol 95%	64-17-5	130	4	EN 374-3:2003	4	++
Ethyl acetate 99%	141-78-6	8	0	ASTM F739	3	=
Ethylene glycol 99%	107-21-1	NT	NT		4	NA
Hydrochloric acid 10%	7647-01-0	480	6	EN 374-3:2003	4	++
Hydrochloric acid 35%	7647-01-0	480	6	EN 374-3:2003	4	++
Hydrofluoric Acid 49%	7664-39-3	480	6	EN 374-3:2003	NT	NA
Hydrogen fluoride Anhydrous 99%	7664-39-3	25	1	ASTM F739	NT	NA
Methanol 85%	67-56-1	NT	NT		4	NA
Methanol 99%	67-56-1	70	3	ASTM F739	4	++
Methyl Ethyl Ketone (2-Butanone) 99%	78-93-3	9	0	EN 374-3:2003	2	-

*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 BTT based on a working day.
- Used for **repeated chemical contact**, limited to total chemical exposure i.e. : accumulative BTT 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, such as concentration and temperature, glove thickness and glove reuse, may also affect performance. Other glove requirements, such as length, dexterity, cut, abrasion, puncture and snag resistance, or glove grip also need to be considered in making your final selection.

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Methyl methacrylate 95%	80-62-6	9	0	EN 374-3:2003	2	-
Methylisobutylketone 99%	108-10-1	20	1	EN 374-3:2003	2	=
n-Heptane 99%	142-82-5	33	2	EN 374-3:2003	NT	NA
n-hexane 95%	110-54-3	30	1	ASTM F739	4	+
N-methyl-2-Pyrrolidone 99%	872-50-4	53	2	EN 374-3:2003	3	+
N-N dimethyl acetamide 99%	127-19-5	32	2	ASTM F739	3	+
Naphtha, Hydrotreated Heavy mixture	64742-48-9	113	3	EN 374-3:2003	4	++
Nitric acid 10%	7697-37-2	480	6	EN 374-3:2003	4	++
Nitric acid 20%	7697-37-2	480	6	EN 374-3:2003	4	++
Nitric acid 40%	7697-37-2	480	6	EN 374-3:2003	4	++
Nitric acid 50%	7697-37-2	480	6	EN 374-3:2003	4	++
Nitric acid 68%	7697-37-2	480	6	EN 374-3:2003	4	++
Nitrobenzene 99%	98-95-3	41	2	ASTM F739	2	=
Phosphoric acid 75%	7664-38-2	480	6	EN 374-3:2003	4	++
Sodium hydroxide 20%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 40%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 50%	1310-73-2	480	6	ASTM F739	4	++
Styrene 99%	100-42-5	12	1	EN 374-3:2003	1	-
Sulfuric acid 10%	7664-93-9	480	6	EN 374-3:2003	4	++
Sulfuric acid 40%	7664-93-9	480	6	EN 374-3:2003	4	++
Sulfuric acid 50%	7664-93-9	480	6	EN 374-3:2003	4	++
Sulfuric acid 96%	7664-93-9	36	2	ASTM F739	2	=
t-Butyl Methyl Ether 98%	1634-04-4	18	1	EN 374-3:2003	2	=
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	16	1	ASTM F739	1	-
Tetrahydrofurane 99%	109-99-9	3	0	ASTM F739	1	-
Toluene 99%	108-88-3	6	0	EN 374-3:2003	1	-

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Trichloroethylene 99%	79-01-6	6	0	EN 374-3:2003	1	-
Vinyl acetate 99%	108-05-4	7	0	EN 374-3:2003	2	-
Xylene 99%	1330-20-7	10	0	EN 374-3:2003	1	-

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