

Ultranitril 381

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
1,1,1-Trichloroethane 99%	71-55-6	21	1	EN 374-3:2003	1	-
1,1,2-Trichlorotrifluoroethane (Freon TF or Freon 113) 99%	76-13-1	>480	6	ASTM F739	4	++
1,2 - dichloroethane 99%	107-06-2	2	0	EN 16523-1:2015	NT	NA
2-Butoxyethanol (Butyl Cellusolve) 99%	111-76-2	372	5	ASTM F739	4	++
2-Ethoxyethyl acetate (Cellosolve Acetate) 99%	111-15-9	67	3	ASTM F739	2	+
2-Propanol (Isopropanol) 99%	67-63-0	>480	6	ASTM F739	4	++
Acetaldehyde 99%	75-07-0	3	0	ASTM F739	NT	NA
Acetic acid 60%	64-19-7	>480	6	EN 16523-1:2015	NT	NA
Acetic acid 99%	64-19-7	51	2	EN 16523-1:2015	2	=
Acetone 99%	67-64-1	3	0	EN 16523-1:2015	1	-
Acetonitrile 99%	75-05-8	<10	0	EN 374-3:2003	NT	NA
Acetyl Chloride 98%	75-36-5	1	0	ASTM F739	NT	NA
Acrylic acid 99%	79-10-7	55	2	EN 16523-1:2015	NT	NA
Ammonium hydroxide solution 25%	1336-21-6	217	4	EN 16523-1:2015	4	++
Ammonium hydroxide solution 29%	1336-21-6	435	5	ASTM F739	4	++
Aniline 99%	62-53-3	89	3	ASTM F739	1	-
Benzene 99%	71-43-2	<1	0	EN 16523-1:2015	2	-
Bromobenzene 99%	108-86-1	11	1	EN 374-3:2003	NT	NA
Butyl Acetate 99%	123-86-4	31	2	ASTM F739	2	=
Carbon disulfide 99%	75-15-0	<1	0	EN 16523-1:2015	NT	NA
Carbon Tetrachloride 99%	56-23-5	114	3	ASTM F739	4	++
Chromic Acid 50%	7738-94-5	250	5	ASTM F739	4	++
Cumene 98%	98-82-8	166	4	ASTM F739	3	++
Cyclohexane 99%	110-82-7	>480	6	EN 374-3:2003	4	++
Dichloromethane (Methylene Chloride) 99%	75-09-2	1	0	ASTM F739	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.

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Diethanolamine 97%	111-42-2	>480	6	ASTM F739	4	++
Dimethylformamide 99%	68-12-2	6	0	EN 374-3:2003	1	-
Dimethylsulfoxide 99%	67-68-5	157	4	ASTM F739	3	++
Ethanol 95%	64-17-5	218	4	ASTM F739	4	++
Ethanol 95%	64-17-5	288	5	ASTM F739	4	++
Ether (Diethyl Ether) 99%	60-29-7	41	2	ASTM F739	4	+
Ethyl acetate 99%	141-78-6	11	0	EN 16523-1:2015	1	-
Ethyl benzene 99%	100-41-4	28	1	ASTM F739	2	=
Ethylene glycol 99%	107-21-1	>480	6	ASTM F739	4	++
Formaldehyde 37%	50-00-0	>480	6	EN 16523-1:2015	4	++
Formic Acid 96%	64-18-6	28	1	EN 16523-1:2015	NT	NA
Fuel oils mixture	68476-34-6	>480	6	EN 374-3:2003	3	++
Furfural 99%	98-01-1	34	2	ASTM F739	1	-
Hexamethylene Diisocyanate (1,6 - Diisocyanatohexane) 99,9%	822-06-0	>480	6	EN 16523-1:2015	2	+
Hydrazine 35%	302-01-2	>480	6	ASTM F739	4	++
Hydrazine 70%	302-01-2	>480	6	ASTM F739	4	++
Hydrochloric acid 10%	7647-01-0	>480	6	EN 374-3:2003	4	++
Hydrochloric acid 37%	7647-01-0	>480	6	ASTM F739	4	++
Hydrogen peroxide 30%	7722-84-1	>480	6	EN 16523-1:2015	4	++
Isobutyl alcohol 99%	78-83-1	>480	6	ASTM F739	4	++
Kerosene mixture	8008-20-6	>480	6	ASTM F739	4	++
m-Cresol 97%	108-39-4	309	5	ASTM F739	1	-
Methanol 99%	67-56-1	43	2	EN 16523-1:2015	3	+
Methyl Ethyl Ketone (2-Butanone) 99%	78-93-3	2	0	EN 16523-1:2015	1	-
Methylisobutylketone 99%	108-10-1	25	1	ASTM F739	2	=

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n-Heptane 99%	142-82-5	>480	6	EN 16523-1:2015	4	++
n-hexane 95%	110-54-3	>480	6	ASTM F739	4	++
N-N dimethyl acetamide 99%	127-19-5	15	1	ASTM F739	2	=
Naphtha mixture	8030-30-6	>480	6	ASTM F739	4	++
Naphtha VM&P mixture	8032-32-4	>480	6	ASTM F739	4	++
Naphtha, Hydrotreated Heavy mixture	64742-48-9	>480	6	EN 374-3:2003	4	++
Nitric acid 50%	7697-37-2	344	5	ASTM F739	4	++
Nitric acid 65%	7697-37-2	42	2	EN 16523-1:2015	3	+
Nitrobenzene 99%	98-95-3	42	2	ASTM F739	1	-
Phenol 85%	108-95-2	191	4	ASTM F739	3	++
Phosphoric acid 75%	7664-38-2	>480	6	ASTM F739	4	++
Phosphoric acid 85%	7664-38-2	>480	6	ASTM F739	4	++
Phosphorous Trichloride 98%	7719-12-2	16	1	ASTM F739	1	-
Potassium Fluoride 40%	7789-23-3	>480	6	ASTM F739	4	++
Potassium Hydroxide 50%	1310-58-3	>480	6	EN 16523-1:2015	4	++
Propylene Oxide 99%	75-56-9	2	0	ASTM F739	NT	NA
Sodium hydroxide 20%	1310-73-2	>480	6	EN 374-3:2003	4	++
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	4	++
Spent Acid mixture	NA	>480	6	ASTM F739	NT	NA
Styrene 99%	100-42-5	10	1	EN 16523-1:2015	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	ASTM F739	4	++
Sulfuric acid 96%	7664-93-9	104	3	EN 16523-1:2015	1	-
t-Butyl Methyl Ether 98%	1634-04-4	452	5	ASTM F739	4	++

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tert-Butyl Hydroperoxide 70%	75-91-2	208	4	ASTM F739	4	++
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	183	4	ASTM F739	3	++
Toluene 99%	108-88-3	13	1	EN 16523-1:2015	2	=
Trichloroethylene 99%	79-01-6	4	0	EN 374-3:2003	1	-
Triethanolamine 98%	102-71-6	>480	6	ASTM F739	4	++
Triethanolamine 99,4%	102-71-6	>480	6	EN 16523-1:2015	4	++
Turpentine mixture	8006-64-2	>480	6	ASTM F739	4	++
Unleaded gasoline 100%	8006-61-9	262	5	EN 16523-1:2015	NT	NA
Unleaded gasoline mixture	8006-61-9	52	2	EN 374-3:2003	4	+
Xylene 99%	1330-20-7	22	1	EN 374-3:2003	2	=

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