

## UltraNeo 382

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradatio level	Rating
1,1,1-Trichloroethane 99%	71-55-6	23	1	ASTM F739	3	=
1,1,2,2-Tetrachloroethane 98%	79-34-5	20	1	ASTM F739	1	-
1,2 - dichloroethane 99%	107-06-2	7	0	ASTM F739	1	-
1,2-Dichlorobenzene 99%	95-50-1	16	1	ASTM F739	1	-
1,2,4-Trichlorobenzene 99%	120-82-1	37	2	ASTM F739	1	-
2-Butoxyethanol (Butyl Cellusolve) 99%	111-76-2	295	5	ASTM F739	4	++
2-Ethoxyethanol (Cellosolve) 99%	110-80-5	265	5	ASTM F739	4	++
2-Ethoxyethyl acetate (Cellosolve Acetate) 99%	111-15-9	42	2	ASTM F739	3	+
2-Methylpentamethylenediamine 99%	15520-10-2	100	3	ASTM F739	3	++
2-Propanol (Isopropanol) 99%	67-63-0	480	6	ASTM F739	4	++
2,2,2-Trifluoroethanol 99%	75-89-8	480	6	ASTM F739	4	++
Acetaldehyde 99%	75-07-0	8	0	ASTM F739	4	=
Acetic acid 10%	64-19-7	480	6	ASTM F739	4	++
Acetic acid 50%	64-19-7	480	6	ASTM F739	4	++
Acetic acid 99%	64-19-7	289	5	ASTM F739	3	++
Acetone 99%	67-64-1	9	0	ASTM F739	3	=
Acetonitrile 99%	75-05-8	37	2	ASTM F739	4	+
Acrylonitrile 99%	107-13-1	16	1	ASTM F739	4	+
Ammonium hydroxide solution 29%	1336-21-6	148	4	ASTM F739	4	++
Aniline 99%	62-53-3	102	3	ASTM F739	3	++
Benzene 99%	71-43-2	5	0	ASTM F739	1	-
Butyl Acetate 99%	123-86-4	12	1	ASTM F739	1	-
Carbon disulfide 99%	75-15-0	2	0	ASTM F739	4	=
Carbon Tetrachloride 99%	56-23-5	12	1	ASTM F739	1	-
Chromic Acid 50%	7738-94-5	268	5	ASTM F739	4	++

\*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

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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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Cumene 98%	98-82-8	15	1	ASTM F739	3	=
Cyclohexane 99%	110-82-7	50	2	ASTM F739	3	+
Dichloromethane (Methylene Chloride) 99%	75-09-2	2	0	ASTM F739	3	=
Diethanolamine 97%	111-42-2	480	6	ASTM F739	4	++
Dimethylformamide 99%	68-12-2	26	1	ASTM F739	3	=
Dimethylsulfoxide 99%	67-68-5	346	5	ASTM F739	4	++
Ethanol 95%	64-17-5	363	5	ASTM F739	4	++
Ethyl acetate 99%	141-78-6	5	0	EN 374-3:2003	NT	
Ethylene glycol 99%	107-21-1	480	6	ASTM F739	4	++
Formaldehyde 37%	50-00-0	480	6	ASTM F739	3	++
Furfural 99%	98-01-1	51	2	ASTM F739	3	+
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	ASTM F739	4	++
Hydrochloric acid 35%	7647-01-0	NT	NT		4	
Hydrochloric acid 37%	7647-01-0	480	6	ASTM F739	4	++
Hydrofluoric Acid 40%	7664-39-3	480	6	EN 16523-1:2015	NT	
Hydrogen bromide 47%	10035-10-6	480	6	EN 374-3:2003	NT	
Hydrogen fluoride Anhydrous 99% Gas	7664-39-3	71	3	ASTM F739	NT	
Hydrogen peroxide 30%	7722-84-1	480	6	EN 16523-1:2015	NT	
Isobutyl alcohol 99%	78-83-1	480	6	ASTM F739	4	++
Kerosene mixture	8008-20-6	463	5	ASTM F739	4	++
m-Cresol 97%	108-39-4	480	6	ASTM F739	4	++
Methanol 85%	67-56-1	NT	NT		4	
Methanol 99%	67-56-1	67	3	ASTM F739	3	++
Methyl Amyl Ketone 98%	110-43-0	15	1	ASTM F739	3	=
Methyl Ethyl Ketone (2-Butanone) 99%	78-93-3	8	0	ASTM F739	2	

\*not normalized result

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Mapa Professionnel Défense Ouest - 420, rue d'Estienne d'Orves - 92705 Colombes Cedex - France Tel: (33) 1 49 64 22 00 - Fax: (33) 1 49 64 24 29 <u>www.mapa-pro.com</u>



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CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradatio level	Rating
108-10-1	23	1	ASTM F739	3	=
142-82-5	63	3	ASTM F739	4	++
110-54-3	34	2	ASTM F739	4	+
872-50-4	38	2	ASTM F739	1	-
127-19-5	27	1	ASTM F739	2	=
68551-17-7	480	6	ASTM F739	4	++
8032-32-4	25	1	ASTM F739	4	+
7697-37-2	480	6	ASTM F739	4	++
7697-37-2	480	6	ASTM F739	4	++
7697-37-2	480	6	ASTM F739	4	++
7697-37-2	480	6	ASTM F739	4	++
7697-37-2	480	6	EN 16523-1:2015	4	++
98-95-3	26	1	ASTM F739	2	=
109-66-0	31	2	ASTM F739	3	+
108-95-2	305	5	ASTM F739	4	++
7664-38-2	480	6	ASTM F739	4	++
7664-38-2	480	6	ASTM F739	4	++
1310-58-3	480	6	ASTM F739	4	++
110-86-1	9	0	ASTM F739	1	-
1310-73-2	480	6	ASTM F739	4	++
1310-73-2	480	6	ASTM F739	4	++
1310-73-2	480	6	ASTM F739	4	++
7664-93-9	480	6	ASTM F739	4	++
7664-93-9	480	6	ASTM F739	4	++
7664-93-9	480	6	ASTM F739	4	++
7664-93-9	115	3	ASTM F739	4	++
	<ul> <li>108-10-1</li> <li>142-82-5</li> <li>110-54-3</li> <li>872-50-4</li> <li>872-50-4</li> <li>127-19-5</li> <li>68551-17-7</li> <li>8032-32-4</li> <li>7697-37-2</li> <li>109-66-0</li> <li>108-95-2</li> <li>7664-38-2</li> <li>1310-73-2</li> <li>1310-73-2</li> <li>1310-73-2</li> <li>1310-73-2</li> <li>7664-93-9</li> <li>7664-93-9</li> <li>7664-93-9</li> <li>7664-93-9</li> <li>7664-93-9</li> </ul>	CAS #time (minutes)108-10-123142-82-563110-54-334872-50-438127-19-52768551-17-74808032-32-4257697-37-24807697-37-24807697-37-24807697-37-248098-95-326109-66-031108-95-23057664-38-24801310-73-24801310-73-24801310-73-24801310-73-24801310-73-24801310-73-24801310-73-24807664-93-94807664-93-94807664-93-94807664-93-94807664-93-94807664-93-94807664-93-9480	CAS #         (minutes)         level           108-10-1         23         1           142-82-5         63         3           110-54-3         34         2           872-50-4         38         2           127-19-5         27         1           68551-17-7         480         6           8032-32-4         25         1           7697-37-2         480         6           7697-37-2         480         6           7697-37-2         480         6           7697-37-2         480         6           7697-37-2         480         6           98-95-3         26         1           109-66-0         31         2           108-95-2         305         5           7664-38-2         480         6           1310-73-2         480         6           1310-73-2         480         6           1310-73-2         480         6           1310-73-2         480         6           1310-73-2         480         6           1310-73-2         480         6           1310-73-2         480         6	CAS #time (minutes)Permeation levelStandard108-10-1231ASTM F739142-82-5633ASTM F739110-54-3342ASTM F739872-50-4382ASTM F739872-50-4382ASTM F73968551-17-74806ASTM F73968551-17-74806ASTM F7397697-37-24806ASTM F739108-95-3261ASTM F739108-95-23055ASTM F7397664-38-24806ASTM F7391310-73-24806ASTM F7391310-73-24806ASTM F7391310-73-24806ASTM F7391310-73-24806ASTM F7391310-73-24806ASTM F7391310-73-24806ASTM F7397664-93-94806ASTM F7397664-93-94806ASTM F7397664-93-94806ASTM F7397664-93-9<	CAS #time (minutes)Permeador levelStandardDegradatio level108-10-1231ASTM F7393142-82-5633ASTM F7394110-54-3342ASTM F7394872-50-4382ASTM F7391127-19-5271ASTM F739268551-17-74806ASTM F73948032-32-4251ASTM F73947697-37-24806ASTM F73947697-37-24806ASTM F73947697-37-24806ASTM F73947697-37-24806EN 16523-1:2015498-95-3261ASTM F7392109-66-0312ASTM F73947664-38-24806ASTM F73947664-38-24806ASTM F73941310-73-24806ASTM F7394

\*not normalized result

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working day.
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# Mapa Chemical

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Toluene 99%	108-88-3	1	0	EN 374-3:2003	NT	
Triethanolamine 98%	102-71-6	480	6	ASTM F739	4	++
Triethylamine 99%	121-44-8	22	1	ASTM F739	3	=
Turpentine mixture	8006-64-2	137	4	ASTM F739	3	++
Unleaded gasoline mixture	8006-61-9	10	1	ASTM F739	1	-
Xylene 99%	1330-20-7	8	0	ASTM F739	1	-

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