

TempTec 332

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
1,1,1-Trichloroethane 99%	71-55-6	20	1	ASTM F739	1	-
1,1,2-Trichloroethane 97%	79-00-5	7	0	ASTM F739	2	-
1,2 - dichloroethane 99%	107-06-2	6	0	ASTM F739	NT	NA
2-Bromo-ethyl acetate 97%	927-68-4	52	2	ASTM F739	2	=
2-Hydroxyethyl Methacrylate 97%	868-77-9	480	6	ASTM F739	NT	NA
2-Propanol (Isopropanol) 99%	67-63-0	450	5	ASTM F739	4	++
2,4-Di-tertiary Butylphenol 99%	96-76-4	29	1	ASTM F739	NT	NA
2,6-Dimethyl-4-Heptanone (Diisobutyl Ketone) 80%	108-83-8	56	2	ASTM F739	3	+
Acetaldehyde 99%	75-07-0	5	0	ASTM F739	NT	NA
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	210	4	ASTM F739	4	++
Acetic acid 99%	64-19-7	399	5	EN 16523-1:2015	4	++
Acetone 99%	67-64-1	8	0	ASTM F739	3	=
Acetone 99%	67-64-1	10	0	EN 374-3:2003	3	=
Acetonitrile 99%	75-05-8	62	3	EN 16523-1:2015	4	++
Acrylate 2-Hydroxyethyl 96%	818-61-1	480	6	ASTM F739	NT	NA
Acrylic acid 99%	79-10-7	268	5	EN 16523-1:2015	4	++
Acrylonitrile 99%	107-13-1	19	1	ASTM F739	NT	NA
Ammonium hydroxide solution 29%	1336-21-6	265	5	ASTM F739	4	++
Amyl Acetate 99%	628-63-7	25	1	ASTM F739	2	=
Amyl Alcohol 99%	71-41-0	480	6	ASTM F739	4	++
Aniline 99%	62-53-3	142	4	ASTM F739	4	++
Benzene 99%	71-43-2	3	0	ASTM F739	NT	NA
Benzotrichloride 100%	98-07-7	63	3	ASTM F739	NT	NA
Benzoyl Chloride 100%	98-88-4	28	1	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.

□ 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

TempTec 332

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
Benzyl Chloride 99%	100-44-7	17	1	ASTM F739	2	=
Butyl Acetate 99%	123-86-4	17	1	ASTM F739	1	-
Butyl Acetate 99%	123-86-4	13	1	EN 374-3:2003	1	-
Butyl Acrylate 99%	141-32-2	15	1	ASTM F739	1	-
Calcium Hydroxide 0,18%	1305-62-0	480	6	ASTM F739	4	++
Carbon disulfide 99%	75-15-0	1	0	ASTM F739	3	=
Carbon Tetrachloride 99%	56-23-5	24	1	ASTM F739	3	=
Chlorine 100%	7782-50-5	480	6	ASTM F739	NT	NA
Chlorine 99%	7782-50-5	44	2	ASTM F739	NT	NA
Chloroform 99%	67-66-3	2	0	ASTM F739	NT	NA
Chromic Acid 50%	7738-94-5	348	5	ASTM F739	4	++
Cumene 98%	98-82-8	22	1	ASTM F739	1	-
Cyclohexane 99%	110-82-7	35	2	ASTM F739	3	+
Cyclohexane 99%	110-82-7	39	2	EN 374-3:2003	3	+
Cyclohexanol 99%	108-93-0	480	6	ASTM F739	4	++
Cyclooctadiene 99%	111-78-4	23	1	ASTM F739	NT	NA
Dibutyl Phthalate 99%	84-74-2	480	6	ASTM F739	4	++
Dichloromethane (Methylene Chloride) 99%	75-09-2	4	0	ASTM F739	3	=
Diethylamine 98%	109-89-7	4	0	ASTM F739	NT	NA
Dimethyl Sulfide 99%	75-18-3	2	0	ASTM F739	1	-
Dimethylformamide 99%	68-12-2	30	1	ASTM F739	3	=
Dimethylsulfoxide 99%	67-68-5	456	5	ASTM F739	4	++
Diphenyl Phospite NA	4712-55-4	480	6	ASTM F739	NT	NA
Ethanol 95%	64-17-5	363	5	ASTM F739	4	++
Ether (Diethyl Ether) 99%	60-29-7	4	0	ASTM F739	3	=
Ethyl acetate 99%	141-78-6	8	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.

□ 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

TempTec 332

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
Ethyl acrylate 99%	140-88-5	18	1	ASTM F739	1	-
Ethyl acrylate 99%	140-88-5	15	1	EN 374-3:2003	1	-
Ethyl benzene 99%	100-41-4	1	0	ASTM F739	NT	NA
Ethyl Chloroformate 97%	541-41-3	4	0	ASTM F739	2	-
Ethylene glycol 99%	107-21-1	480	6	ASTM F739	4	++
Formaldehyde 37%	50-00-0	480	6	ASTM F739	4	++
Formaldehyde 37%	50-00-0	480	6	EN 16523-1:2015	4	++
Formic Acid 96%	64-18-6	NT	NT		4	NA
Fuel oils mixture	68476-34-6	480	6	ASTM F739	NT	NA
Glutaraldehyde 50%	111-30-8	NT	NT		4	NA
Hexachlorocyclopentadiene 100%	77-47-4	30	1	ASTM F739	NT	NA
Hydrazine 35%	302-01-2	480	6	ASTM F739	4	++
Hydrazine 70%	302-01-2	NT	NT		4	NA
Hydrochloric acid 10%	7647-01-0	480	6	ASTM F739	4	++
Hydrochloric acid 35%	7647-01-0	NT	NT		4	NA
Hydrochloric acid 37%	7647-01-0	480	6	ASTM F739	4	++
Hydrofluoric Acid 10%	7664-39-3	480	6	ASTM F739	4	++
Hydrofluoric Acid 40%	7664-39-3	480	6	EN 16523-1:2015	NT	NA
Hydrofluoric Acid 49%	7664-39-3	480	6	ASTM F739	4	++
Hydrogen fluoride Anhydrous 99% Gas	7664-39-3	35	2	ASTM F739	NT	NA
Hydrogen peroxide 30%	7722-84-1	480	6	EN 16523-1:2015	4	++
Hypophosphorous Acid 50%	6303-21-5	480	6	ASTM F739	NT	NA
Isobutyl alcohol 99%	78-83-1	480	6	ASTM F739	4	++
m,o,p-Chlorotoluene mixture	25168-05-2	15	1	ASTM F739	NT	NA
Maleic Acid 9,1%	110-16-7	480	6	ASTM F739	4	++
meta-Xylene 99%	108-38-3	NT	NT		2	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

TempTec 332

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
Methanol 85%	67-56-1	480	6	EN 374-3:2003	4	++
Methanol 99%	67-56-1	262	5	EN 16523-1:2015	4	++
Methyl Ethyl Ketone (2-Butanone) 99%	78-93-3	9	0	ASTM F739	1	-
Methyl methacrylate 95%	80-62-6	15	1	EN 374-3:2003	1	-
Methylamine 40%	74-89-5	391	5	ASTM F739	4	++
Methylisobutylketone 99%	108-10-1	19	1	ASTM F739	2	=
Mineral Spirits 100%	64475-85-0	127	4	ASTM F739	NT	NA
n-Butanol 99%	71-36-3	480	6	ASTM F739	4	++
n-Heptane 99%	142-82-5	50	2	ASTM F739	4	+
n-Heptane 99%	142-82-5	82	3	EN 16523-1:2015	4	++
n-hexane 95%	110-54-3	36	2	ASTM F739	4	+
N-methyl-2-Pyrrolidone 99%	872-50-4	71	3	EN 16523-1:2015	NT	NA
N-N dimethyl acetamide 99%	127-19-5	45	2	ASTM F739	2	=
n-Propanol 99%	71-23-8	480	6	ASTM F739	4	++
N,N-Diisopropylethylamine 99%	7087-68-5	301	5	ASTM F739	4	++
Naphtha (Stoddart Solvent) mixture	8052-41-3	241	5	ASTM F739	3	++
Naphtha Heavy mixture	68551-17-7	NT	NT		4	NA
Naphtha VM&P mixture	8032-32-4	23	1	ASTM F739	4	+
Nitric acid 10%	7697-37-2	NT	NT		4	NA
Nitric acid 20%	7697-37-2	NT	NT		4	NA
Nitric acid 40%	7697-37-2	NT	NT		4	NA
Nitric acid 50%	7697-37-2	NT	NT		4	NA
Nitric acid 65%	7697-37-2	480	6	EN 16523-1:2015	4	++
Nitric acid 68%	7697-37-2	NT	NT		4	NA
Nitric acid 70%	7697-37-2	NT	NT		4	NA
Nitric acid 90%	7697-37-2	3	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.

□ 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

TempTec 332

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
Nitrobenzene 99%	98-95-3	52	2	ASTM F739	NT	NA
Nonylphenol 99%	25154-52-3	480	6	ASTM F739	NT	NA
Oleic Acid 90%	112-80-1	NT	NT		3	NA
Oleum (free SO3) 30%	8014-95-7	10	0	ASTM F739	NT	NA
Parachlorobenzotrithloride 99%	5216-25-1	70	3	ASTM F739	NT	NA
Pentane 99%	109-66-0	NT	NT		4	NA
Phenol 85%	108-95-2	480	6	ASTM F739	4	++
Phosphoric acid 75%	7664-38-2	480	6	ASTM F739	4	++
Phosphoric acid 85%	7664-38-2	480	6	ASTM F739	4	++
Potassium Hydroxide 50%	1310-58-3	480	6	ASTM F739	4	++
Potassium Iodide 59%	7681-11-0	480	6	ASTM F739	4	++
Propylene Oxide 99%	75-56-9	1	0	ASTM F739	NT	NA
Pyridine 99%	110-86-1	10	0	ASTM F739	1	-
Sodium Carbonate 21,6%	497-19-8	480	6	ASTM F739	4	++
Sodium hydroxide 20%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 20%	1310-73-2	480	6	EN 374-3:2003	4	++
Sodium hydroxide 40%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 40%	1310-73-2	480	6	EN 16523-1:2015	4	++
Sodium hydroxide 50%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 50%	1310-73-2	480	6	EN 374-3:2003	4	++
Sodium Thiosulfate 41,2%	7772-98-7	480	6	ASTM F739	4	++
Styrene 99%	100-42-5	2	0	ASTM F739	NT	NA
Sulfur Dichloride 100%	10545-99-0	30	1	ASTM F739	NT	NA
Sulfur Monochloride 100%	10025-67-9	480	6	ASTM F739	NT	NA
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	++

*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

TempTec 332

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
Sulfuric acid 96%	7664-93-9	88	3	ASTM F739	2	+
Sulfuric acid 96%	7664-93-9	190	4	EN 374-3:2003	2	+
t-Butyl Methyl Ether 98%	1634-04-4	6	0	ASTM F739	NT	NA
tert-Butyl Hydroperoxide 70%	75-91-2	454	5	ASTM F739	NT	NA
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	7	0	ASTM F739	1	-
Tetrahydrofurane 99%	109-99-9	3	0	ASTM F739	3	=
Toluene 99%	108-88-3	6	0	ASTM F739	1	-
Toluene 99%	108-88-3	5	0	EN 374-3:2003	1	-
Trichloroethylene 99%	79-01-6	1	0	ASTM F739	NT	NA
Triethylamine 99%	121-44-8	35	2	ASTM F739	2	=
Trifluoroacetic Acid 99%	76-05-1	480	6	ASTM F739	4	++
Unleaded gasoline mixture	8006-61-9	8	0	ASTM F739	1	-
Vinyl acetate 99%	108-05-4	14	1	ASTM F739	2	=
Xylene 99%	1330-20-7	17	1	ASTM F739	1	-

*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