

Chemical Compatibility Guide for: SHOWA ChemMaster™ Neoprene Gloves

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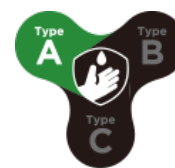
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363103



CHM

Material Neoprene/Natural Rubber LENGTH 12 in. / 305mm



CHEMICAL PERMEATION

CHEMICAL NAME	CAS NUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL ASTM F739	INT ASTM F1383
Formaldehyde 37%	50-00-0	E	E	E	E	>480	>240
2-Hydroxypropionic acid 85%	50-21-5	E	E	E	E	>480	>240
Carbon Tet	56-23-5	F	NR	NR	NR	NR	>30
1,2-Propanediol	57-55-6	E	E	E	E	>480	>240
Diethyl Ether	60-29-7	G	F	F	F	6-10	>10
Aminobenzene	62-53-3	NT	NT	NT	NT	NR	>240
Ethanol	64-17-5	E	E	E	E	>60	>240
Formic Acid 90%	64-18-6	E	E	E	E	>480	>240
Formic Acid	64-18-6	E	E	E	E	>480	>240
Acetic Acid 84%	64-19-7	E	E	E	E	>480	>240
Methanol	67-56-1	E	E	E	E	>30	>30
2-Propanol	67-63-0	E	E	E	E	>60	>240
2-Propanone	67-64-1	NT	NT	NT	NT	>10	NT
Chloroform	67-66-3	NR	NR	NR	NR	NR	6-10
Dimethylsulfoxide (DMSO)	67-68-5	E	E	E	E	>480	>240
Dimethyl Formamide	68-12-2	NT	NT	NT	NT	>30	NT
n-Propanol	71-23-8	E	E	E	E	>60	>120
Butanol	71-36-3	E	E	E	E	>120	>120
Alcohol, Amyl	71-41-0	E	E	E	E	>480	>240
Benzene	71-43-2	P	NR	NR	NR	NR	6-10
1,1,1-Trichloroethane	71-55-6	P	NR	NR	NR	NR	>10
Iodide, Methyl	74-88-4	NR	NR	NR	NR	NR	1-5
Acetonitrile	75-05-8	E	E	E	E	1-5	>10
Acetaldehyde	75-07-0	E	E	E	F	6-10	6-10
Chloride, Methylene	75-09-2	P	NR	NR	NR	NR	6-10
Bromoform	75-25-2	P	NR	NR	NR	NR	>10

1,1-Dichloroethene	75-35-4	NR	NR	NR	NR	NR	6-10
Nitromethane	75-52-5	E	E	E	E	>10	>30
1,2-Epoxypropane	75-56-9	G	F	F	P	6-10	>30
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	E	E	E	E	>60	>60
Dimethyl Sulfate	77-78-1	E	E	E	E	>480	>240
Citric Acid 30%	77-92-9	E	E	E	E	>480	>240
2-Butanol	78-83-1	E	E	E	E	>60	>240
2-Butanone	78-93-3	G	G	F	F	>10	>10
Ethylene, Trichloride	79-01-6	NR	NR	NR	NR	NR	1-5
2-Propenamide 50%	79-06-1	E	E	E	E	>480	>240
2-Propenamide(s) 99%	79-06-1	E	E	E	E	>480	>240
Acetate, Methyl	79-20-9	G	G	G	G	6-10	>10
Nitro Propane	79-46-9	E	E	E	G	>10	>30
Methacrylate, Methyl	80-62-6	G	P	NR	NR	NR	>30
DBP	84-74-2	E	E	E	G	>480	>240
Vinyl Pyrrolidinone	88-12-0	NT	NT	NT	NT	>120	NT
Biphenyl 27%	92-52-4	G	F	P	NR	NR	NR
Dichlorobenzene O-	95-50-1	F	NR	NR	NR	NR	>10
2-Aminotoluene	95-53-4	G	F	F	P	>480	>240
1,2,4 - Trimethyl Benzene 98%	95-63-6	F	NR	NR	NR	>10	>10
Butanone Oxime	96-29-7	E	E	E	E	>480	>240
2-Ethylbutyl alcohol	97-95-0	E	E	E	E	>480	>240
2-Furaldehyde	98-01-1	E	E	E	E	>480	>240
Benzene, Trifluoromethyl	98-08-8	E	P	NR	NR	>10	>10
Butyl Toluene, p-Tert	98-51-1	G	F	P	NR	NR	>240
1-chloro-4-[trifluoromethyl]Benzene	98-56-6	E	F	P	NR	>10	>30
(1-Methylethyl)benzene	98-82-8	P	NR	NR	NR	>10	>10
1-Phenylethanone	98-86-2	G	P	NR	NR	NR	>60
Cyclohexyldimethylamine	98-94-2	NT	NT	NT	NT	>60	NT
Nitrobenzene	98-95-3	G	F	P	NR	NR	>30
Benzene, Ethyl	100-41-4	P	NR	NR	NR	NR	>10
Benzene, Vinyl	100-42-5	F	NR	NR	NR	NR	6-10
Alcohol, Benzyl	100-51-6	E	E	E	E	1-5	>240
Benzaldehyde	100-52-7	G	P	P	NR	NR	>30
OxyBisbenzene,1,1- (Dowtherm) 73%	101-84-8	G	F	P	NR	NR	NR
2,2',2''-Nitrilotriethanol	102-71-6	E	E	E	E	>480	>240
Methyl Isobutyl Ketoxime	105-44-2	NT	NT	NT	NT	>480	>240

Dimethylpiperazine	106-58-1	NT	NT	NT	NT	>30	NT
±)-2-(Chloromethyl)oxiran	106-89-8	E	G	G	G	>10	>10
1,2-Dichloroethane	107-06-2	F	NR	NR	NR	NR	>10
Acrylonitrile	107-13-1	E	E	E	E	6-10	>10
1,2-Diaminoethane 99%	107-15-3	E	E	E	E	>480	>240
2-Propen-1-ol	107-18-6	E	E	E	G	>30	>30
1,2-Ethanediol	107-21-1	E	E	E	E	>480	>240
Methyl Propyl Ketone	107-87-9	F	P	P	P	>10	NT
1-methoxy-2-propanol	107-98-2	NT	NT	NT	NT	>120	NT
Acetate, Vinyl	108-05-4	P	NR	NR	NR	6-10	>10
2-Pentanone, Methyl-	108-10-1	E	E	P	P	NR	>30
Acetate, Isopropyl	108-21-4	F	P	P	P	>10	>10
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	NT	NT	NT	NT	>60	NT
2,6-Dimethyl-4-Heptanone	108-83-8	E	E	E	E	>120	>240
Benzene, Methyl	108-88-3	P	NR	NR	NR	NR	6-10
Benzene Chloride	108-90-7	P	NR	NR	NR	NR	6-10
Cyclohexanol	108-93-0	E	E	E	E	>480	>240
Cyclohexanone	108-94-1	G	P	P	NR	NR	>30
Carbolic Acid 89%	108-95-2	NT	NT	NT	NT	>10	>240
Dimethyl Propanamide, N,N'-	109-55-7	NT	NT	NT	NT	>60	NT
Acetate, Propyl	109-60-4	G	F	P	P	NR	>10
Pentane	109-66-0	E	E	E	E	6-10	>30
1-Aminobutane	109-73-9	P	P	P	NR	NR	NT
DEA	109-89-7	G	P	P	NR	NR	6-10
Diethylene Oxide	109-99-9	P	NR	NR	NR	NR	6-10
Hexane	110-54-3	E	E	E	E	>10	>30
2-Ethoxyethanol	110-80-5	E	G	G	F	>30	>30
Cyclohexane	110-82-7	E	E	G	NR	>10	>10
PYRIDINE	110-86-1	G	P	P	P	NR	>10
Diethylene oximide	110-91-8	NT	NT	NT	NT	>30	>60
1,5-Pentanedial 50%	111-30-8	E	E	E	E	>480	>240
2,2-iminodiethanol	111-42-2	E	E	E	E	>480	>240
Diethylene Glycol	111-46-6	E	E	E	E	>480	>240
2-Butoxyethanol	111-76-2	E	E	E	E	>480	>240
Diethylene Glycol Monomethyl Ether	111-77-3	E	E	E	E	>480	>240
n-Octanol	111-87-5	E	E	E	E	>480	>240
1-Acetoxy-2-butoxyethane	112-15-2	E	G	G	F	>480	>240

Ethylene Glycol Monoethyl Ether	112-25-4	E	E	E	E	>480	>240
Butoxydiglycol	112-34-5	E	NT	E	E	>60	>240
Methyltriglycol	112-35-6	E	E	E	E	>480	>240
Ethoxytriglycol	112-50-5	E	E	E	E	>480	>240
Diethylene Glycol Monoethyl Ether	112-59-4	E	E	E	G	>480	>240
Oleic Acid 98%	112-80-1	E	E	E	E	>480	>240
1,2,4-Trichlorobenzene	120-82-1	F	NR	NR	NR	NR	>30
2,4-Dinitrotoluene 40%	121-14-2	NT	NT	NT	NT	>480	>240
4-Hydroxy-4-methyl-2-pentanone	123-42-2	E	E	E	E	>60	>240
3-Methyl-1-butanol	123-51-3	E	E	E	E	>60	>120
Butyl Acetate	123-86-4	G	P	P	P	NR	>10
1,4-Dioxane	123-91-1	G	NT	P	P	NR	>10
3-Methylbutyl Ethanoate	123-92-2	G	P	NR	NR	NR	>10
PERC	127-18-4	P	NR	NR	NR	NR	>30
Dimethylacetamide N,N-	127-19-5	E	G	G	G	>480	>240
Butyl Acrylate	141-32-2	NT	NT	NT	NT	>10	NT
2-Aminoethanol	141-43-5	E	E	E	E	>480	>240
Ethyl Acetate	141-78-6	NT	NT	NT	NT	6-10	NT
Heptane	142-82-5	E	E	E	E	>30	>30
Butoxytriglycol	143-22-6	E	E	E	E	>480	>240
3,4-DCBTF	328-84-7	G	F	P	NR	>30	>60
2,2,4-Trimethyl Pentane	540-84-1	E	E	E	E	>120	>240
Butyl Ethylene	592-41-6	E	G	G	G	>10	NT
Amyl Acetate	628-63-7	G	F	P	NR	NR	>30
Methyl Pyrrolidone, N-	872-50-4	E	E	E	E	>480	>240
2-Bromoethyl Acetate	927-68-4	NT	NT	NT	NT	>30	>30
Caustic Potash 45%	1310-58-3	E	E	E	E	>480	>240
Caustic Soda 50%	1310-73-2	E	E	E	E	>480	>240
Cresols	1319-77-3	E	E	E	G	>480	>240
Divinyl Benzene	1321-74-0	F	NR	NR	NR	NR	>60
dimethyl benzene	1330-20-7	NT	NT	NT	NT	6-10	NT
Tricresyl Phosphate	1330-78-5	E	E	E	E	>480	>240
Chromic Acid Solution 50%	1333-82-0	E	E	E	E	>480	>240
Ammonia Solution 29%	1336-21-6	E	E	E	E	>480	>240
Gallotannin 50%	1401-55-4	E	E	E	E	>480	>240
1-Propoxy-2-propanol	1569-01-3	E	E	E	E	>480	>240
Methyl-Tert-Butyl Ether	1634-04-4	E	F	P	P	NR	>10

Dichlorofluoroethane	1717-00-6	G	P	P	NR	NR	NT
Dibutyl phenyl phosphate	2528-36-1	E	E	G	F	>480	>240
2-Propoxyethanol	2807-30-9	E	E	E	E	>480	>240
Butoxypropanol	5131-66-8	E	E	E	E	>120	>240
D-Limonene	5989-27-5	G	P	NR	NR	NR	>240
2,2'-dimorpholinodiethylether	6425-39-4	NT	NT	NT	NT	>120	NT
2-(2-Propoxyethoxy)ethanol	6881-94-3	E	E	E	E	>480	>240
Muriatic Acid	7647-01-0	E	E	E	E	>480	>240
Hydrochloric Acid 37%	7647-01-0	E	E	E	E	>480	>240
Hydrochloric Acid 10%	7647-01-0	E	E	E	E	>480	>240
Phosphoric Acid 85%	7664-38-2	E	E	E	E	>480	>240
Hydrofluoric Acid 48%	7664-39-3	NT	NT	NT	NT	>120	NT
Battery Acid 96%	7664-93-9	NT	NT	NT	NT	>60	NT
Battery Acid 50%	7664-93-9	NT	NT	NT	NT	>480	>240
Battery Acid 70%	7664-93-9	NT	NT	NT	NT	>480	>240
Battery Acid 47%	7664-93-9	E	E	E	E	>480	>240
Battery Acid 10%	7664-93-9	NT	NT	NT	NT	>480	>240
Battery Acid 25%	7664-93-9	NT	NT	NT	NT	>480	>240
Bleach: Sodium Hypochlorite 6%	7681-52-9	E	E	E	E	>480	>240
Nitric Acid 70%	7697-37-2	E	E	E	E	>480	>240
Nitric Acid 23%	7697-37-2	E	E	E	E	>480	>240
Hydrogen Peroxide 30%	7722-84-1	E	E	E	E	>480	>240
Gasoline (unleaded)	8006-61-9	E	F	G	NR	NR	>10
Fir Oil	8006-64-2	NT	NT	NT	NT	>30	>60
Aqua Regia	8007-56-5	E	E	E	E	>480	>240
Kerosene	8008-20-6	E	E	G	G	>60	>240
Ligroin	8032-32-4	E	E	E	G	>10	>240
Dry Cleaning Mineral Spirits	8052-41-3	E	E	E	E	>60	>120
2-Chloro-2-Oxoethyl Acetate	13831-31-7	E	E	E	G	>60	>120
Fluoboric Acid 49%	16872-11-0	E	E	E	E	>480	>240
1-Chloro-2-Methyl Benzene	25168-05-2	P	NR	NR	NR	>10	>10
Butyl Dipropasol Solvent	29911-28-2	E	E	E	E	>480	>240
Antimony Tributurate 95%	53856-17-0	NT	NT	NT	NT	>480	>240
Dry cleaning safety solvent	64475-85-0	E	E	E	E	>60	>60
Diesel Fuel	77650-28-3	E	E	E	G	>480	>240

DEGRADATION RATING

E=EXCELLENT; G=GOOD; F=FAIR; P=POOR; NR= NOT RECOMMENDED; NT=NOT TESTED

BDT=BREAKTHROUGH DETECTION TIME

THE LEVEL (0 TO 6) INDICATES THE TIME REQUIRED FOR DIFFERENT CHEMICALS TO PERMEATE THROUGH THE GLOVE.

TTL : TOTAL IMMERSION CHEMICAL PERMEATION BREAKTHROUGH TIME.

INT : INTERMITTENT CONTACT CHEMICAL PERMEATION BREAKTHROUGH TIME, ONE MINUTE IMMERSION OUT OF EVERY TEN, REPEATEDLY.

Warranty Limitations and Disclaimer Use

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