

Chemical Compatibility Guide for: SHOWA 707FL Biodegradable Nitrile Gloves

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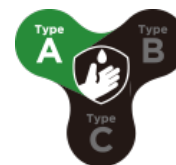
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707FL

Material **Nitrile** LENGTH 12 in. / 305mm



CHEMICAL PERMEATION

CHEMICAL NAME	CAS NUMBER	BDT	
		TTL ASTM F739	INT ASTM F1383
Formaldehyde 37%	50-00-0	>480	NT
2-Hydroxypropionic acid 85%	50-21-5	>480	>240
Carbon Tet	56-23-5	>10	NT
Urea (s) 99%	57-13-6	>480	>240
1,2-Propanediol	57-55-6	>480	NT
Diethyl Ether	60-29-7	1-5	NT
Aminobenzene	62-53-3	>10	NT
Ethanol	64-17-5	>60	NT
Formic Acid	64-18-6	>10	NT
Formic Acid 90%	64-18-6	>10	NT
Acetic Acid 25%	64-19-7	>480	>240
Acetic Acid 5%	64-19-7	>480	>240
Acetic Acid 99%	64-19-7	NT	>10
Acetic Acid 84%	64-19-7	NT	>60
Acetic Acid 10%	64-19-7	>480	>240
Acetic Acid 50%	64-19-7	>240	>240
Benzoic Acid (s) 99%	65-85-0	>480	>240
Methanol	67-56-1	>10	NT
2-Propanol	67-63-0	>480	>240
2-Propanone	67-64-1	<1	<1
Chloroform	67-66-3	1-5	1-5
Dimethylsulfoxide (DMSO)	67-68-5	>30	NT
Dimethyl Formamide	68-12-2	1-5	NT
Salicylic acid (s) 99%	69-72-7	>480	>240
n-Propanol	71-23-8	>120	NT
Butanol	71-36-3	>480	>240

Alcohol, Amyl	71-41-0	>60	NT
Benzene	71-43-2	6-10	NT
1,1,1-Trichloroethane	71-55-6	1-5	NT
Iodide, Methyl	74-88-4	<1	NT
ETHYLAMINE 70%	75-04-7	1-5	NT
Acetonitrile	75-05-8	1-5	NT
Acetaldehyde	75-07-0	1-5	NT
Chloride, Methylene	75-09-2	<1	<1
Bromoform	75-25-2	<1	<1
1,1-Dichloroethene	75-35-4	1-5	NT
Nitromethane	75-52-5	1-5	NT
1,2-Epoxypropane	75-56-9	1-5	NT
Tetramethylammonium Hydroxide 25%	75-59-2	>480	NT
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	>10	NT
Dimethyl Sulfate	77-78-1	>30	NT
Citric Acid 30%	77-92-9	>480	>240
Citric Acid	77-92-9	>480	>240
Citric Acid 50%	77-92-9	>480	>240
2-Butanol	78-83-1	>480	>240
Dichloropropane, 1,2-	78-87-5	1-5	NT
2-Butanone	78-93-3	1-5	1-5
Ethylene, Trichloride	79-01-6	1-5	NT
2-Propenamide(s) 99%	79-06-1	>480	NT
2-Propenamide 98%	79-06-1	>480	>240
2-Propenamide 50%	79-06-1	>480	>240
Chloroacetic Acid 80%	79-11-8	>60	NT
Acetate, Methyl	79-20-9	1-5	NT
PERACETIC ACID 39%	79-21-0	>10	NT
Methacrylic Acid 99%	79-41-4	>10	NT
Nitro Propane	79-46-9	1-5	NT
Methacrylate, Methyl	80-62-6	6-10	NT
DBP	84-74-2	>240	NT
Vinyl Pyrrolidinone	88-12-0	6-10	NT
Biphenyl 27%	92-52-4	6-10	NT
Dichlorobenzene O-	95-50-1	6-10	NT
2-Aminotoluene	95-53-4	6-10	NT
1,2,4 - Trimethyl Benzene 98%	95-63-6	>10	NT

Butanone Oxime	96-29-7	>60	NT
2-Ethylbutyl alcohol	97-95-0	>10	NT
2-Furaldehyde	98-01-1	1-5	NT
Butyl Toluene, p-Tert	98-51-1	>30	NT
(1-Methylethyl)benzene	98-82-8	>10	NT
1-Phenylethanone	98-86-2	1-5	NT
Cyclohexyldimethylamine	98-94-2	>30	NT
Nitrobenzene	98-95-3	1-5	NT
Benzene, Ethyl	100-41-4	1-5	NT
Benzene, Vinyl	100-42-5	>10	NT
Alcohol, Benzyl	100-51-6	>10	NT
Benzaldehyde	100-52-7	>10	NT
4,4-Methylenedianiline	101-77-9	>30	NT
Oxybisbenzene,1,1- (Dowtherm) 73%	101-84-8	1-5	NT
2,2',2''-Nitrilotriethanol	102-71-6	>30	NT
Methyl Isobutyl Ketoxime	105-44-2	>480	NT
Dimethylpiperazine	106-58-1	>60	NT
±)-2-(Chloromethyl)oxiran	106-89-8	1-5	NT
1,2-Dichloroethane	107-06-2	6-10	NT
Acrylonitrile	107-13-1	1-5	1-5
1,2-Diaminoethane 99%	107-15-3	6-10	NT
2-Propen-1-ol	107-18-6	>10	NT
1,2-Ethanediol	107-21-1	>480	NT
Methyl Propyl Ketone	107-87-9	1-5	NT
1-methoxy-2-propanol	107-98-2	>30	NT
Acetate, Vinyl	108-05-4	6-10	NT
2-Pentanone, Methyl-	108-10-1	6-10	NT
Acetate, Isopropyl	108-21-4	6-10	NT
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	>10	NT
2,6-Dimethyl-4-Heptanone	108-83-8	>60	NT
Benzene, Methyl	108-88-3	6-10	NT
Benzene Chloride	108-90-7	1-5	NT
Cyclohexanol	108-93-0	>240	NT
Cyclohexanone	108-94-1	>10	NT
Carbolic Acid 89%	108-95-2	>10	NT
Dimethyl Propaneamide, N,N'-	109-55-7	>30	NT
Acetate, Propyl	109-60-4	6-10	NT

Pentane	109-66-0	>480	>240
1-Aminobutane	109-73-9	1-5	NT
DEA	109-89-7	6-10	NT
Diethylene Oxide	109-99-9	1-5	NT
Hexane	110-54-3	>480	>240
2-Ethoxyethanol	110-80-5	6-10	NT
Cyclohexane	110-82-7	>480	>240
PYRIDINE	110-86-1	6-10	NT
Diethylene oximide	110-91-8	6-10	NT
1,5-Pentanedial 50%	111-30-8	>120	NT
2,2-iminodiethanol	111-42-2	>240	NT
Diethylene Glycol	111-46-6	>480	NT
n-Octane	111-65-9	>480	>240
2-Butoxyethanol	111-76-2	>120	NT
n-Octanol	111-87-5	>480	NT
Ethylene Glycol Monohexyl Ether	112-25-4	>120	NT
Oleic Acid	112-80-1	>480	>240
Oleic Acid 98%	112-80-1	>480	NT
1,2,4-Trichlorobenzene	120-82-1	6-10	NT
2,4-Dinitrotoluene 40%	121-14-2	>10	NT
TRIETHYLAMINE	121-44-8	>30	NT
4-Hydroxy-4-methyl-2-pentanone	123-42-2	<1	<1
3-Methyl-1-butanol	123-51-3	6-10	NT
Butyl Acetate	123-86-4	6-10	NT
1,4-Dioxane	123-91-1	>10	NT
3-Methylbutyl Ethanoate	123-92-2	1-5	NT
PERC	127-18-4	>30	NT
Dimethylacetamide N,N-	127-19-5	>10	NT
Butyl Acrylate	141-32-2	>60	NT
2-Aminoethanol	141-43-5	>30	NT
Ethyl Acetate	141-78-6	1-5	NT
Heptane	142-82-5	>480	>240
Butoxytriglycol	143-22-6	>10	NT
OXALIC ACID (s) 99%	144-62-7	>480	>240
Calcium Carbonate (s) 99%	471-34-1	>480	>240
NINHYDRIN	485-47-2	>480	>240
2,2,4-Trimethyl Pentane	540-84-1	>480	NT

3-Methyl-2-Butanone	563-80-4	1-5	NT
Butyl Ethylene	592-41-6	>10	NT
Amyl Acetate	628-63-7	6-10	NT
Methyl Pyrrolidone, N-	872-50-4	>10	NT
2-Bromoethyl Acetate	927-68-4	>10	NT
Hexamethyldisilazane	999-97-3	>480	>240
Glyphosate Roundup 95%	1071-83-6	>480	NT
3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 5%	1239-45-8	>480	>240
3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 1%	1239-45-8	>480	>240
3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 10%	1239-45-8	>480	>240
3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 95%	1239-45-8	>480	>240
Calcium Hydroxide (s) 95%	1305-62-0	>480	>240
Iron Oxide (s) 99%	1309-37-1	>480	>240
Caustic Potash 45%	1310-58-3	480	>120
Caustic Potash 10%	1310-58-3	480	>120
Caustic Potash 20%	1310-58-3	>480	>240
Caustic Potash 99%	1310-58-3	480	>120
Caustic Potash 30%	1310-58-3	>480	>240
Caustic Soda 98%	1310-73-2	>480	>240
Caustic Soda 40%	1310-73-2	>480	>240
Caustic Soda 50%	1310-73-2	>480	>240
Caustic Soda 10%	1310-73-2	>480	>240
Cresols	1319-77-3	6-10	NT
Divinyl Benzene	1321-74-0	>30	NT
dimethyl benzene	1330-20-7	>10	NT
Chromic Acid Solution 99%	1333-82-0	>480	>240
Chromic Acid Solution 50%	1333-82-0	1-5	NT
Ammonia Solution 25%	1336-21-6	>120	NT
Ammonia Solution 29%	1336-21-6	>120	NT
Ammonia Solution 10%	1336-21-6	>240	>240
Ammonia Solution 32%	1336-21-6	>60	NT
Gallotannin 95%	1401-55-4	>480	>240
Methyl-Tert-Butyl Ether	1634-04-4	>240	>240
Dibutyl phenyl phosphate	2528-36-1	>120	NT
2-Propoxyethanol	2807-30-9	>30	NT
Butoxypropanol	5131-66-8	>480	>240
D-Limonene	5989-27-5	>60	NT

2,2'-dimorpholinodiethylether	6425-39-4	>30	NT
Aluminum Chloride (s) 98%	7446-70-0	>480	>240
Potassium Chloride (s) 99%	7447-40-7	>480	>240
Hydrochloric Acid 37%	7647-01-0	>480	>240
Hydrochloric Acid 10%	7647-01-0	>480	>240
Muriatic Acid 20%	7647-01-0	>480	>240
Muriatic Acid 32%	7647-01-0	>480	>240
Sodium Chloride (s) 99%	7647-14-5	>480	>240
Phosphoric Acid 85%	7664-38-2	>480	>240
Phosphoric Acid 10%	7664-38-2	>480	>240
Phosphoric Acid 50%	7664-38-2	>480	>240
Hydrofluoric Acid 48%	7664-39-3	>10	NT
Hydrofluoric Acid 40%	7664-39-3	>30	NT
Hydrofluoric Acid 99%	7664-39-3	<1	<1
Hydrofluoric Acid 30%	7664-39-3	>60	NT
Sulfuric Acid 10%	7664-93-9	>480	>240
Sulfuric Acid 25%	7664-93-9	>480	>240
Battery Acid 47%	7664-93-9	>480	>240
Sulfuric Acid 96%	7664-93-9	NT	>30
Sulfuric Acid 50%	7664-93-9	>480	>240
Sulfuric Acid 93%	7664-93-9	>30	>30
Sulfuric Acid 70%	7664-93-9	>240	>240
Bleach: Sodium Hypochlorite 12%	7681-52-9	>480	>240
Bleach: Sodium Hypochlorite 6%	7681-52-9	>480	>240
Nitric Acid 65%	7697-37-2	NT	>10
Nitric Acid 70%	7697-37-2	NT	6-10
Nitric Acid 35%	7697-37-2	>480	>240
Nitric Acid 23%	7697-37-2	>480	>240
Nitric Acid 50%	7697-37-2	>30	>60
Nitric Acid 10%	7697-37-2	>480	>240
Hydrogen Peroxide 30%	7722-84-1	>240	>240
Bromine	7726-95-6	<1	<1
Iron Chloride Solution 45%	7758-94-3	>480	>240
Iron Chloride Solution 98%	7758-94-3	>480	>240
Iron Sulfate (s) 99%	7782-63-0	>480	>240
Hydroxylamine 50%	7803-49-8	>480	NT
Gasoline (unleaded)	8006-61-9	>10	NT

Fir Oil	8006-64-2	>240	NT
Kerosene	8008-20-6	>480	>240
Ligroin	8032-32-4	>60	NT
Dry Cleaning Mineral Spirits	8052-41-3	>480	NT
Hydrobromic Acid 48%	10035-10-6	>480	>240
Boric acid (s) 99%	10043-35-3	>480	>240
Calcium Chloride (s) 96%	10043-52-4	>480	>240
Tetrachloropropene	10436-39-2	>60	NT
Ammonium Fluoride 40%	12125-01-8	>480	>240
2-Chloro-2-Oxoethyl Acetate	13831-31-7	>10	NT
Talc (s) 99%	14807-96-6	>480	>240
Fluoboric Acid 49%	16872-11-0	>30	NT
Antimony Tributrylate 95%	53856-17-0	>480	>240
Dry cleaning safety solvent	64475-85-0	>480	>240
Distillates (petroleum), hydrotreated light	64742-47-8	>480	>240
Mineral Spirits (White Spirits Type 3)	64742-48-9	>480	>240
Kerosene (hydrosulfurized)	64742-81-0	>480	>240
Mineral Spirits (White Spirits Type 0)	64742-88-7	>480	>240
Diesel Oil	68334-30-5	>480	>240
Kerosene (Fuel Oil # 2)	68476-30-2	>480	>240
Diesel Fuel #2	68476-34-6	>480	>240
Mineral Spirits (odorless)	68551-17-7	>480	>240
Diesel Fuel	77650-28-3	>480	NT

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.

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