

Chemical Compatibility Guide for: SHOWA CS710 Nitrile Coated Gloves

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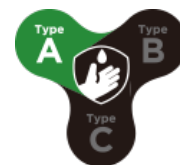
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CS720

Material NBR LENGTH 12 in. / 300mm



CHEMICAL PERMEATION

CHEMICAL NAME	CAS NUMBER	BDT	
		TTL ASTM F739	INT ASTM F1383
Formaldehyde 37%	50-00-0	>480	>240
2-Hydroxypropionic acid 85%	50-21-5	>480	>240
Carbon Tet	56-23-5	>120	>240
Urea (s) 99%	57-13-6	>480	>240
Urea (s) 62%	57-13-6	>480	>240
Urea (s) 35%	57-13-6	>480	>240
1,2-Propanediol	57-55-6	>480	>240
Diethyl Ether	60-29-7	1-5	1-5
Aminobenzene	62-53-3	>30	>60
Ethanol	64-17-5	>120	>240
Formic Acid 90%	64-18-6	1-5	NT
Acetic Acid 5%	64-19-7	>480	>240
Acetic Acid 10%	64-19-7	>480	>240
Acetic Acid 50%	64-19-7	>480	>240
Acetic Acid 99%	64-19-7	>30	NT
Acetic Acid 84%	64-19-7	>60	NT
Acetic Acid 25%	64-19-7	>480	>240
Benzoic Acid (s) 99%	65-85-0	>480	>240
Methanol	67-56-1	>30	>60
2-Propanol	67-63-0	>480	>240
2-Propanone	67-64-1	1-5	1-5
Chloroform	67-66-3	1-5	1-5
Dimethylsulfoxide (DMSO)	67-68-5	>60	>60
Dimethyl Formamide	68-12-2	6-10	>10
Salicylic acid (s) 99%	69-72-7	>480	>240
n-Propanol	71-23-8	>240	>240

Butanol	71-36-3	>480	>240
Alcohol, Amyl	71-41-0	>480	>240
Benzene	71-43-2	1-5	6-10
Iodide, Methyl	74-88-4	<1	<1
Methylamine 40%	74-89-5	>10	>30
ETHYLAMINE 70%	75-04-7	1-5	1-5
ETHYLAMINE 97%	75-04-7	<1	<1
Acetonitrile	75-05-8	1-5	1-5
Acetaldehyde	75-07-0	1-5	1-5
Chloride, Methylene	75-09-2	1-5	1-5
Carbon Disulfide	75-15-0	6-10	6-10
1,2-Epoxy Ethane (gas)	75-21-8	<1	<1
Bromoform	75-25-2	<1	<1
1,1-Dichloroethene	75-35-4	<1	<1
Acetyl Chloride	75-36-5	1-5	1-5
Nitromethane	75-52-5	<1	<1
1,2-Epoxypropane	75-56-9	1-5	1-5
Tetramethylammonium Hydroxide 25%	75-59-2	>480	>240
Dimethyl Sulfate	77-78-1	>10	>10
Citric Acid 30%	77-92-9	>480	>240
Citric Acid 99%	77-92-9	>480	>240
Citric Acid 50%	77-92-9	>480	>240
Citric Acid 75%	77-92-9	>480	>240
2-Butanol	78-83-1	>480	>240
Dichloropropane, 1,2-	78-87-5	1-5	6-10
2-Butanone	78-93-3	1-5	1-5
Ethylene, Trichloride	79-01-6	1-5	6-10
2-Propeneamide 50%	79-06-1	>480	>240
2-Propeneamide 98%	79-06-1	>480	>240
2-Propenoic Acid	79-10-7	>30	NT
Chloroacetic Acid 80%	79-11-8	>480	>240
Chloroacetic Acid 70%	79-11-8	>480	>240
Acetate, Methyl	79-20-9	1-5	1-5
PERACETIC ACID 39%	79-21-0	>10	NT
Methacrylic Acid 99%	79-41-4	>10	NT
Nitro Propane	79-46-9	1-5	1-5
Methacrylate, Methyl	80-62-6	6-10	6-10

DBP	84-74-2	>120	>120
Vinyl Pyrrolidinone	88-12-0	1-5	1-5
Dichlorobenzene O-	95-50-1	1-5	1-5
2-Aminotoluene	95-53-4	>30	>30
Pseudocumene	95-63-6	>10	>10
Butanone Oxime	96-29-7	>480	>240
Butyl Methacrylate	97-88-1	>60	>60
2-Ethylbutyl alcohol	97-95-0	>480	>240
2-Furaldehyde	98-01-1	1-5	1-5
(1-Methylethyl)benzene	98-82-8	1-5	1-5
1-Phenylethanone	98-86-2	1-5	1-5
Nitrobenzene	98-95-3	1-5	1-5
Benzene, Ethyl	100-41-4	>10	>10
Benzene, Vinyl	100-42-5	6-10	6-10
Alcohol, Benzyl	100-51-6	6-10	>10
Benzaldehyde	100-52-7	1-5	1-5
2,2',2''-Nitrilotriethanol	102-71-6	>480	>240
±)-2-(Chloromethyl)oxiran	106-89-8	6-10	6-10
1,2-Dichloroethane	107-06-2	1-5	1-5
Acrylonitrile	107-13-1	1-5	1-5
1,2-Diaminoethane	107-15-3	>30	>30
2-Propen-1-ol	107-18-6	>10	>30
1,2-Ethandiol	107-21-1	>480	>240
Methyl Propyl Ketone	107-87-9	1-5	1-5
1-methoxy-2-propanol	107-98-2	>60	>60
Acetate, Vinyl	108-05-4	1-5	1-5
2-Pentanone, Methyl-	108-10-1	>10	>10
Acetate, Isopropyl	108-21-4	1-5	6-10
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	>10	>30
2,6-Dimethyl-4-Heptanone	108-83-8	>120	>120
Benzene, Methyl	108-88-3	6-10	6-10
Benzene Chloride	108-90-7	1-5	1-5
Cyclohexanol	108-93-0	>480	>240
Cyclohexanone	108-94-1	>10	>10
Carbolic Acid	108-95-2	>120	>120
Carbolic Acid 89%	108-95-2	>60	>60
Carbolic Acid 10%	108-95-2	>120	>120

Dimethyl Propaneamide, N,N'	109-55-7	6-10	6-10
Acetate, Propyl	109-60-4	1-5	6-10
Pentane	109-66-0	>480	>240
1-Aminobutane	109-73-9	6-10	6-10
DEA	109-89-7	>10	>30
Diethylene Oxide	109-99-9	1-5	1-5
Hexane	110-54-3	>480	>240
Cyclohexane	110-82-7	>480	>240
PYRIDINE	110-86-1	1-5	1-5
Diethylene oximide	110-91-8	1-5	1-5
1,5-Pentanedial 50%	111-30-8	>60	>240
2,2-iminodiethanol	111-42-2	>30	>60
Diethylene Glycol	111-46-6	>480	>240
n-Octane	111-65-9	>480	>240
2-Butoxyethanol	111-76-2	>120	>120
n-Octanol	111-87-5	>480	>240
Oleic Acid	112-80-1	>480	>240
1,2,4-Trichlorobenzene	120-82-1	<1	<1
TRIETHYLAMINE	121-44-8	>10	>30
Dipropyl Ketone	123-19-3	1-5	1-5
4-Hydroxy-4-methyl-2-pentanone	123-42-2	1-5	1-5
3-Methyl-1-butanol	123-51-3	>480	>240
2,4-Pentanedione	123-54-6	1-5	1-5
Butyl Acetate	123-86-4	1-5	6-10
1,4-Dioxane	123-91-1	1-5	1-5
3-Methylbutyl Ethanoate	123-92-2	1-5	1-5
Dimethylamine 99%	124-40-3	1-5	1-5
Dimethylamine 40%	124-40-3	>480	>240
PERC	127-18-4	>30	>120
Dimethylacetamide N,N-	127-19-5	>10	>30
Butyl Acrylate	141-32-2	>10	>30
2-Aminoethanol	141-43-5	>60	>60
Ethyl Acetate	141-78-6	1-5	6-10
Heptane	142-82-5	>480	>240
Butoxytriglycol	143-22-6	>30	>30
OXALIC ACID (s) 99%	144-62-7	>480	>240
Calcium Carbonate (s) 99%	471-34-1	>480	>240

NINHYDRIN	485-47-2	>480	>240
Trimethyl Phosphate	512-56-1	6-10	NT
2,2,4-Trimethyl Pentane	540-84-1	>480	>240
3-Methyl-2-Butanone	563-80-4	6-10	6-10
Ethyl Propyl Ketone	589-38-8	1-5	1-5
Butyl Ethylene	592-41-6	>480	>240
Amyl Acetate	628-63-7	1-5	1-5
Methyl Pyrrolidone, N-	872-50-4	>30	>30
2-Bromoethyl Acetate	927-68-4	<1	<1
Hexamethyldisilazane	999-97-3	>480	>240
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 95%	1239-45-8	>480	>240
3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 10%	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	>240
Caustic Potash 30%	1310-58-3	>480	>240
Caustic Potash 10%	1310-58-3	>480	>240
Caustic Potash 20%	1310-58-3	>480	>240
Caustic Potash 99%	1310-58-3	>480	>240
Caustic Soda 40%	1310-73-2	>480	>240
Caustic Soda 10%	1310-73-2	>480	>240
Caustic Soda 30%	1310-73-2	>480	>240
Caustic Soda 98%	1310-73-2	>480	>240
Caustic Soda 20%	1310-73-2	>480	>240
Caustic Soda 50%	1310-73-2	>480	>240
Cresols	1319-77-3	>30	>30
Divinyl Benzene	1321-74-0	1-5	1-5
dimethyl benzene	1330-20-7	>10	>10
Triresyl Phosphate	1330-78-5	>120	>120
Chromic Acid Solution 50%	1333-82-0	>10	NT
Chromic Acid Solution 99%	1333-82-0	>480	>240
Ammonia Solution 29%	1336-21-6	>60	NT
Ammonia Solution 10%	1336-21-6	>240	>240
Ammonia Solution 32%	1336-21-6	>60	NT
Ammonia Solution 25%	1336-21-6	>120	NT

Gallotannin 50%	1401-55-4	>480	>240
Gallotannin 95%	1401-55-4	>480	>240
1-Propoxy-2-propanol	1569-01-3	>60	>60
Methyl-Tert-Butyl Ether	1634-04-4	>120	>120
Butoxypropanol	5131-66-8	>240	>240
D-Limonene	5989-27-5	>30	>30
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 10%	7664-38-2	>480	>240
Phosphoric Acid 50%	7664-38-2	>480	>240
Phosphoric Acid 85%	7664-38-2	>480	>240
Hydrofluoric Acid 20%	7664-39-3	>480	>240
Hydrofluoric Acid 30%	7664-39-3	>480	>240
Hydrofluoric Acid 10%	7664-39-3	>480	>240
Hydrofluoric Acid 48%	7664-39-3	>60	NT
Hydrofluoric Acid 40%	7664-39-3	>240	>240
Sulfuric Acid 96%	7664-93-9	>120	NT
Sulfuric Acid 10%	7664-93-9	>480	>240
Sulfuric Acid 70%	7664-93-9	>480	>240
Battery Acid 47%	7664-93-9	>480	>240
Sulfuric Acid 93%	7664-93-9	>120	NT
Sulfuric Acid 50%	7664-93-9	>480	>240
Sulfuric Acid 25%	7664-93-9	>480	>240
Bleach: Sodium Hypochlorite 6%	7681-52-9	>480	>240
Bleach: Sodium Hypochlorite 12%	7681-52-9	>480	>240
Nitric Acid 70%	7697-37-2	>10	NT
Nitric Acid 65%	7697-37-2	>30	NT
Nitric Acid 10%	7697-37-2	>480	>240
Nitric Acid 23%	7697-37-2	>480	>240
Nitric Acid 50%	7697-37-2	>120	NT
Nitric Acid 35%	7697-37-2	>480	>240
Hydrogen Peroxide 3%	7722-84-1	>480	>240

Hydrogen Peroxide 6%	7722-84-1	>480	>240
Hydrogen Peroxide 10%	7722-84-1	>480	>240
Hydrogen Peroxide 30%	7722-84-1	>480	>240
Bromine	7726-95-6	<1	<1
Iron Chloride Solution 98%	7758-94-3	>480	>240
Iron Chloride Solution 45%	7758-94-3	>480	>240
Chlorine (Gas)	7782-50-5	>480	>240
Iron Sulfate (s) 99%	7782-63-0	>480	>240
Hydroxylamine 50%	7803-49-8	>480	>240
Kerosene	8008-20-6	>480	>240
Mineral Oil - Light	8012-95-1	>480	>240
Naphtha, VM&P	8030-30-6	>480	>240
Ligroin	8032-32-4	>480	>240
Dry Cleaning Mineral Spirits	8052-41-3	>480	>240
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	>10	>30
Ammonium Fluoride 40%	12125-01-8	>480	>240
2-Chloro-2-Oxoethyl Acetate	13831-31-7	1-5	1-5
Talc (s) 99%	14807-96-6	>480	>240
Fluoboric Acid 49%	16872-11-0	>60	NT
Pentachloropropane	23153-23-3	>30	>30
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
Naphtha, VM & P	64742-49-0	>480	>240
Kerosene (hydrosulfurized)	64742-81-0	>480	>240
Mineral Spirits (White Spirits Type 0)	64742-88-7	>480	>240
Naphtha, heavy aromatic	64742-94-5	>10	>30
Naphtha, light aromatic	64742-95-6	>30	>60
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
Denacol EX-521	118549-88-5	>480	>240

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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