

Chemical Compatibility Guide for: SHOWA NSK24 Biodegradable Nitrile Gloves

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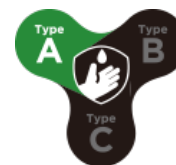
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NSK24

Material Nitrile LENGTH 14 in. / 350mm



CHEMICAL PERMEATION

CHEMICAL NAME	CAS NUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL ASTM F739	INT ASTM F1383
Formaldehyde 37%	50-00-0	NT	NT	NT	NT	>480	>240
Carbon Tet	56-23-5	NT	NT	NT	NT	>30	>60
1,2-Propanediol	57-55-6	NT	NT	NT	NT	>480	>240
Diethyl Ether	60-29-7	NT	NT	NT	NT	1-5	1-5
Aminobenzene	62-53-3	NT	NT	NT	NT	1-5	1-5
Ethanol	64-17-5	NT	NT	NT	NT	>60	>240
Acetic Acid 99%	64-19-7	NT	NT	NT	NT	>30	NT
Acetic Acid 50%	64-19-7	NT	NT	NT	NT	>120	NT
Acetic Acid 84%	64-19-7	NT	NT	NT	NT	>30	NT
Methanol	67-56-1	NT	NT	NT	NT	>10	>60
2-Propanol	67-63-0	NT	NT	NT	NT	>240	>240
2-Propanone	67-64-1	NT	NT	NT	NT	1-5	6-10
Chloroform	67-66-3	NT	NT	NT	NT	1-5	1-5
Dimethylsulfoxide (DMSO)	67-68-5	NT	NT	NT	NT	>60	>60
Dimethyl Formamide	68-12-2	NT	NT	NT	NT	>10	>10
n-Propanol	71-23-8	NT	NT	NT	NT	>60	>120
Butanol	71-36-3	NT	NT	NT	NT	>240	>240
Alcohol, Amyl	71-41-0	NT	NT	NT	NT	>120	>240
Benzene	71-43-2	NT	NT	NT	NT	1-5	6-10
1,1,1-Trichloroethane	71-55-6	NT	NT	NT	NT	6-10	NT
Iodide, Methyl	74-88-4	NT	NT	NT	NT	NT	<1
ETHYLAMINE	75-04-7	NT	NT	NT	NT	NT	<1
Acetonitrile	75-05-8	NT	NT	NT	NT	1-5	1-5
Acetaldehyde	75-07-0	NT	NT	NT	NT	1-5	1-5
Chloride, Methylene	75-09-2	NT	NT	NT	NT	NT	<1
Bromoform	75-25-2	NT	NT	NT	NT	NT	<1

1,1-Dichloroethene	75-35-4	NT	NT	NT	NT	NT	<1
Acetyl Chloride	75-36-5	NT	NT	NT	NT	1-5	1-5
Nitromethane	75-52-5	NT	NT	NT	NT	NT	<1
1,2-Epoxypropane	75-56-9	NT	NT	NT	NT	1-5	NT
Dimethyl Sulfate	77-78-1	NT	NT	NT	NT	1-5	1-5
2-Butanol	78-83-1	NT	NT	NT	NT	>240	>240
Dichloropropane, 1,2-	78-87-5	NT	NT	NT	NT	NT	>10
2-Butanone	78-93-3	NT	NT	NT	NT	1-5	1-5
Ethylene, Trichloride	79-01-6	NT	NT	NT	NT	1-5	1-5
Acetate, Methyl	79-20-9	NT	NT	NT	NT	NT	<1
Vinyl Pyrrolidinone	88-12-0	NT	NT	NT	NT	1-5	1-5
Dichlorobenzene O-	95-50-1	NT	NT	NT	NT	1-5	1-5
2-Aminotoluene	95-53-4	NT	NT	NT	NT	>30	>30
Pseudocumene	95-63-6	NT	NT	NT	NT	>30	>30
Butanone Oxime	96-29-7	NT	NT	NT	NT	>480	>240
2-Ethylbutyl alcohol	97-95-0	NT	NT	NT	NT	>240	>240
2-Furaldehyde	98-01-1	NT	NT	NT	NT	1-5	1-5
(1-Methylethyl)benzene	98-82-8	NT	NT	NT	NT	6-10	>10
Nitrobenzene	98-95-3	NT	NT	NT	NT	1-5	1-5
Benzene, Ethyl	100-41-4	NT	NT	NT	NT	>10	>10
Benzene, Vinyl	100-42-5	NT	NT	NT	NT	NT	6-10
Alcohol, Benzyl	100-51-6	NT	NT	NT	NT	6-10	>10
Benzaldehyde	100-52-7	NT	NT	NT	NT	1-5	1-5
2,2',2''-Nitrilotriethanol	102-71-6	NT	NT	NT	NT	>10	>60
1,2-Dichloroethane	107-06-2	NT	NT	NT	NT	NT	<1
Acrylonitrile	107-13-1	NT	NT	NT	NT	1-5	1-5
1,2-Diaminoethane	107-15-3	NT	NT	NT	NT	6-10	6-10
2-Propen-1-ol	107-18-6	NT	NT	NT	NT	>30	>30
Methyl Propyl Ketone	107-87-9	NT	NT	NT	NT	NT	6-10
1-methoxy-2-propanol	107-98-2	NT	NT	NT	NT	>60	>60
Acetate, Vinyl	108-05-4	NT	NT	NT	NT	1-5	1-5
2-Pentanone, Methyl-	108-10-1	NT	NT	NT	NT	6-10	>10
Acetate, Isopropyl	108-21-4	NT	NT	NT	NT	NT	6-10
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	NT	NT	NT	NT	>30	>60
2,6-Dimethyl-4-Heptanone	108-83-8	NT	NT	NT	NT	>60	>120
Benzene, Methyl	108-88-3	NT	NT	NT	NT	6-10	NT
Benzene Chloride	108-90-7	NT	NT	NT	NT	1-5	1-5

Cyclohexanol	108-93-0	NT	NT	NT	NT	>480	>240
Cyclohexanone	108-94-1	NT	NT	NT	NT	>10	>30
Carbolic Acid 89%	108-95-2	NT	NT	NT	NT	6-10	6-10
Carbolic Acid	108-95-2	NT	NT	NT	NT	>30	>30
Carbolic Acid 10%	108-95-2	NT	NT	NT	NT	6-10	6-10
Dimethyl Propaneamide, N,N'	109-55-7	NT	NT	NT	NT	1-5	1-5
Acetate, Propyl	109-60-4	F	P	NR	NR	>10	NT
Pentane	109-66-0	NT	NT	NT	NT	>240	>240
1-Aminobutane	109-73-9	NT	NT	NT	NT	1-5	1-5
DEA	109-89-7	NT	NT	NT	NT	>10	>10
Diethylene Oxide	109-99-9	NT	NT	NT	NT	1-5	1-5
Hexane	110-54-3	NT	NT	NT	NT	>480	>240
Cyclohexane	110-82-7	NT	NT	NT	NT	>480	>240
PYRIDINE	110-86-1	NT	NT	NT	NT	1-5	1-5
Diethylene oximide	110-91-8	NT	NT	NT	NT	NT	<1
1,5-Pentanedial 50%	111-30-8	NT	NT	NT	NT	>30	>60
2,2-iminodiethanol	111-42-2	NT	NT	NT	NT	>30	>30
2-Butoxyethanol	111-76-2	NT	NT	NT	NT	>120	>240
n-Octanol	111-87-5	NT	NT	NT	NT	>480	>240
1,2,4-Trichlorobenzene	120-82-1	NT	NT	NT	NT	NT	<1
TRIETHYLAMINE	121-44-8	NT	NT	NT	NT	>10	>60
4-Hydroxy-4-methyl-2-pentanone	123-42-2	NT	NT	NT	NT	>10	>10
3-Methyl-1-butanol	123-51-3	NT	NT	NT	NT	>120	>120
Butyl Acetate	123-86-4	NT	NT	NT	NT	>10	>10
1,4-Dioxane	123-91-1	NT	NT	NT	NT	1-5	1-5
3-Methylbutyl Ethanoate	123-92-2	NT	NT	NT	NT	1-5	1-5
PERC	127-18-4	NT	NT	NT	NT	>60	>60
Dimethylacetamide N,N-	127-19-5	NT	NT	NT	NT	6-10	>10
Butyl Acrylate	141-32-2	NT	NT	NT	NT	>10	>10
2-Aminoethanol	141-43-5	NT	NT	NT	NT	>30	>30
Ethyl Acetate	141-78-6	NT	NT	NT	NT	1-5	>10
Heptane	142-82-5	NT	NT	NT	NT	>480	>240
Butoxytriglycol	143-22-6	NT	NT	NT	NT	>30	>30
Trimethyl Phosphate	512-56-1	NT	NT	NT	NT	6-10	NT
2,2,4-Trimethyl Pentane	540-84-1	NT	NT	NT	NT	>480	>240
3-Methyl-2-Butanone	563-80-4	NT	NT	NT	NT	1-5	1-5
Amyl Acetate	628-63-7	NT	NT	NT	NT	>10	>10

Methyl Pyrrolidone, N-	872-50-4	NT	NT	NT	NT	>30	>30
2-Bromoethyl Acetate	927-68-4	NT	NT	NT	NT	NT	<1
Hexamethyldisilazane	999-97-3	NT	NT	NT	NT	>480	>240
Caustic Potash 10%	1310-58-3	NT	NT	NT	NT	>480	>240
Caustic Potash 99%	1310-58-3	NT	NT	NT	NT	>480	>240
Caustic Potash 45%	1310-58-3	NT	NT	NT	NT	>480	>240
Caustic Soda 98%	1310-73-2	NT	NT	NT	NT	>480	>240
Caustic Soda 50%	1310-73-2	NT	NT	NT	NT	>480	>240
Caustic Soda 10%	1310-73-2	NT	NT	NT	NT	>480	>240
Caustic Soda 40%	1310-73-2	NT	NT	NT	NT	>480	>240
Cresols	1319-77-3	NT	NT	NT	NT	>10	>10
Divinyl Benzene	1321-74-0	NT	NT	NT	NT	NT	<1
dimethyl benzene	1330-20-7	NT	NT	NT	NT	>10	>10
Ammonia Solution 29%	1336-21-6	NT	NT	NT	NT	>30	NT
Methyl-Tert-Butyl Ether	1634-04-4	NT	NT	NT	NT	>10	>10
Butoxypropanol	5131-66-8	NT	NT	NT	NT	>480	>240
D-Limonene	5989-27-5	NT	NT	NT	NT	>10	>10
Muriatic Acid 20%	7647-01-0	NT	NT	NT	NT	>480	>240
Hydrochloric Acid 10%	7647-01-0	NT	NT	NT	NT	>480	>240
Muriatic Acid 32%	7647-01-0	NT	NT	NT	NT	>480	>240
Hydrochloric Acid 37%	7647-01-0	NT	NT	NT	NT	>240	>240
Phosphoric Acid 85%	7664-38-2	NT	NT	NT	NT	>480	>240
Hydrofluoric Acid 48%	7664-39-3	NT	NT	NT	NT	>60	NT
Battery Acid 10%	7664-93-9	NT	NT	NT	NT	>480	>240
Battery Acid 25%	7664-93-9	NT	NT	NT	NT	>480	>240
Battery Acid 50%	7664-93-9	NT	NT	NT	NT	>480	>240
Battery Acid 70%	7664-93-9	NT	NT	NT	NT	>480	NT
Battery Acid 96%	7664-93-9	NT	NT	NT	NT	>30	NT
Battery Acid 47%	7664-93-9	NT	NT	NT	NT	>480	>240
Nitric Acid 23%	7697-37-2	NT	NT	NT	NT	>480	>240
Nitric Acid 70%	7697-37-2	NT	NT	NT	NT	>10	NT
Nitric Acid 65%	7697-37-2	NT	NT	NT	NT	>10	NT
Nitric Acid 50%	7697-37-2	NT	NT	NT	NT	>120	NT
Nitric Acid 10%	7697-37-2	NT	NT	NT	NT	>480	>240
Hydrogen Peroxide 30%	7722-84-1	NT	NT	NT	NT	>480	>240
Chlorine (Gas)	7782-50-5	NT	NT	NT	NT	>480	NT
Gasoline (unleaded)	8006-61-9	E	E	E	E	>120	NT

Fir Oil	8006-64-2	NT	NT	NT	NT	>120	>240
Kerosene	8008-20-6	E	E	E	E	>480	>480
Ligroin	8032-32-4	NT	NT	NT	NT	>30	>120
Dry Cleaning Mineral Spirits	8052-41-3	NT	NT	NT	NT	>480	>240
Tetrachloropropene	10436-39-2	NT	NT	NT	NT	>30	>30
2-Chloro-2-Oxoethyl Acetate	13831-31-7	NT	NT	NT	NT	1-5	1-5
Dry cleaning safety solvent	64475-85-0	E	E	E	E	>480	NT
Kerosene (hydrosulfurized)	64742-81-0	NT	NT	NT	NT	>480	>240
Diesel Oil	68334-30-5	NT	NT	NT	NT	>480	>240
Diesel Fuel	77650-28-3	E	E	E	E	>480	>480

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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