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1-800-HOT-HOGS® (468-4647)

Chemical Compatibility Guide for: North® Nitrile Gloves

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North Nitrile Gloves

D= Degradation BT= Breakthrough Time PR= Permeation Rate

Chemical Resistance Guide Arranged by Name

CAS No.	Chemical	D	BT	PR
75 34 3	1,1, Dichloroethane	P	ID	ID
71 55 6	1,1,1 Trichloroethane (Methyl Chloroform)	P	37 min	76.4
630 20 6	1,1,1,2-Tetrachloroethane	ID	ID	ID
79 34 5	1,1,2,2-Tetrachloroethane	ID	ID	ID
79 0 5	1,1,2,-Trichloroethane	P	ID	ID
75 35 4	1,1-Dichloroethylene	ID	ID	ID
75 38 7	1,1-Difluoroethylene	ID	ID	ID
107 6 2	1,2-Dichloroethane (Ethylene Dichloride)	P	8 min	82.7
78 87 5	1,2-Dichloropropane	ID	ID	ID
106 89 8	1,2-Epoxy-3-Chloropropane (Epichlorohydrin)	P	ID	ID
106 88 7	1,2-Epoxybutane	ID	ID	ID
75 56 9	1,2-Epoxypropane (Propylene Oxide)	ID	ID	ID
106 99 0	1,3-Butadiene	ID	ID	ID
109 76 2	1,3-Diaminopropane	ID	ID	ID
542 75 6	1,3-Dichloropropene	ID	ID	ID
108 9 8	1,3-Dimethyl butylamine	ID	ID	ID
503 30 0	1,3-Propylene Oxide	ID	ID	ID
123 91 1	1,4-Diethylene Dioxide (1,4-Dioxane)	P	28 min	77.1
123 91 1	1,4-Dioxane (Diethylene Oxide)	P	28 min	77.1
124 9 4	1,6 Hexanediamine	ID	ID	ID
19686 73 8	1-Bromo-2-Propanol (70%)	ID	ID	ID
127 0 4	1-Chloro-2-Propanol	ID	ID	ID
27138 21 2	1-Methyl-4-tert-butylbenzene (p-t Butyltoluene)	P	ID	ID
108 3 2	1-Nitropropane	ID	12 min	29.5
71 41 0	1-Pentanol	ID	ID	ID
78 88 6	2,3-Dichloro-1-Propene	ID	ID	ID
584 84 9	2,4 Toluene Diisocyanate	ID	ID	ID
540 51 2	2-Bromoethanol (95%)	ID	ID	ID
1338 23 4	2-Butanone Peroxide (50%)	ID	ID	ID
594 71 8	2-Chloro-2-Nitropropane	ID	ID	ID
107 7 3	2-Chloroethanol	ID	ID	ID
110 80 5	2-Ethoxyethanol (2-Ethylhexyl Alcohol)	ID	ID	ID
104 76 7	2-Ethyl-1-Hexanol	ID	ID	ID
79 46 9	2-Nitropropane	ID	ID	ID
67 64 1	2-Propanone (Acetone)	P	5 min	172
627 18 9	3-Bromo-1-Propanol (95%)	ID	ID	ID
627 30 5	3-Chloro-1-Propanol	ID	ID	ID
563 47 3	3-Chloro-2-Methylpropene (90%)	ID	ID	ID
107 5 1	3-Chloroprene (Allyl Chloride)	ID	ID	ID
6291 84 5	3-Methylaminopropylamine	ID	ID	ID
101 77 9	4,4 Methylene Dianiline	ID	ID	ID
101 77 9	4,4 Methylene Dianiline (1-2% in IPA)	ID	ID	ID
107 70 0	4-Methoxy-4-Methyl-2-Pentanone	ID	ID	ID
100 40 3	4-Vinyl-1-Cyclohexene	ID	ID	ID
134 50 9	9-Aminoacridine HC1	ID	ID	ID
75 7 0	Acetaldehyde (Ethanal)	P	0 min	161
64 19 7	Acetic Acid, Glacial	F	38 min	1.9
75 7 0	Acetic Aldehyde (Acetaldehyde)	P	0 min	161
108 24 7	Acetic Anhydride (Acetic Oxide)	ID	ID	ID
141 78 6	Acetic Ester (Ethyl Acetate)	P	8 min	145
141 78 6	Acetic Ether (Ethyl Acetate)	P	8 min	145
67 64 1	Acetone (Dimethyl Ketone)	P	5 min	172
75 5 8	Acetonitrile (Methyl Cyanide)	ID	ID	ID
75 36 5	Acetyl Chloride	ID	ID	ID
107 2 8	Acrolein (82%)	ID	ID	ID
79 10 7	Acrylic Acid	F	ID	ID
107 13 1	Acrylonitrile	P	3 min	176
107 18 6	Allyl Alcohol	P	6 min	>1.97
107 11 9	Allylamine	ID	ID	ID
7664 41 7	Ammonia (gas)	ID	ID	ID
12125 1 8	Ammonium Fluoride (40%)	G	>8 hrs	ND
1336 21 6	Ammonium Hydroxide (29%)	E	2.2 hrs	0.05
62 53 3	Aniline (Aminobenzene)	F	1.1 hrs	45
62 53 3	Aniline Oil	F	1.1 hrs	45
	Aqua Regia	ID	ID	ID
	Baker PRS 1000	ID	ID	ID
	Baker PRS 3000	ID	ID	ID
100 52 7	Benzaldehyde	P	ID	ID

71	43	2	Benzene	P	<6 min	>29
100	47	0	Benzonitrile	ID	ID	ID
98	88	4	Benzoyl Chloride	P	ID	ID
14901	7	6	b-Ionone	ID	ID	ID
111	96	6	Bis(2-methoxyethyl) Ether	ID	ID	ID
10043	35	3	Boric Acid	ID	ID	ID
590	17	0	Bromoacetonitrile	ID	ID	ID
108	86	1	Bromobenzene	P	13 min	9.1
75	27	4	Bromodichloromethane	ID	ID	ID
72	25	2	Bromoform	ID	ID	ID
			Brutem 60	ID	ID	ID
123	86	4	Butyl Acetate	F	29 min	54.4
111	76	2	Butyl Cellosolve	ID	ID	ID
123	72	8	Butyraldehyde	P	ID	ID
75	15	0	Carbon Bisulfide (Carbon Disulfide)	P	9 min	51
56	23	5	Carbon Tetrachloride (Tetrachloromethane)	F	3.4 hrs	5
1310	73	2	Caustic Soda (50%) (Sodium Hydroxide)	E	>6 hrs	ND
110	80	5	Cellosolve	ID	ID	ID
75	87	6	Chloral	ID	ID	ID
7782	50	5	Chlorine	ID	ID	ID
79	11	8	Chloroacetic Acid	ID	ID	ID
107	14	2	Chloroacetonitrile	ID	ID	ID
108	90	7	Chlorobenzene	P	ID	ID
124	48	1	Chlorodibromomethane	ID	ID	ID
75	1	4	Chloroethene (Vinyl Chloride)	ID	ID	ID
75	1	4	Chloroethylene (Vinyl Chloride)	ID	ID	ID
67	66	3	Chloroform (Methenyl Trichloride)	P	4 min	352
90	13	1	Chloronaphthalene	ID	ID	ID
126	99	8	Chloroprene (2-Chlorobutadiene-1,3)	ID	ID	ID
75	77	4	Chlorotrimethylsilane	ID	ID	ID
1333	82	0	Chromic Acid	ID	ID	ID
540	59	0	cis,trans-1,2-Dichloroethylene	ID	ID	ID
156	59	2	cis-Dichloroethylene	ID	ID	ID
77	92	9	Citric Acid	ID	ID	ID
4170	30	3	Crotonaldehyde (83%)	ID	ID	ID
			Curing Agent Z	ID	ID	ID
110	82	7	Cyclohexane (Hexahydorbenzene)	P	ID	ID
108	93	0	Cyclohexanol (Hexahydrophenol)	E	>16 hrs	ND
108	94	1	Cyclohexanone (Ketoexamethylene)	P	ID	ID
108	91	8	Cyclohexylamine	ID	ID	ID
117	81	7	Di(2-ethylhexyl)phthalate (dioctyl phthalate)	E	>8 hrs	ND
124	2	7	Diallylamine	ID	ID	ID
53	60	5	Dibasic Ester	ID	ID	ID
84	74	2	Diethylphthalate	E	>16 hrs	ND
79	36	7	Dichloroacetylchloride	ID	ID	ID
75	9	2	Dichloromethane (Methylene Chloride)	P	4 min	766
			Dichromate Cleaning Solution (10% Potassium Dichromate, 8% H2SO4, 1%	ID	ID	ID
111	42	2	Diethanolamine	ID	ID	ID
60	29	7	Diethyl Ether (Ethyl Ether)	P	14 min	21.8
60	29	7	Diethyl Oxide (Ethyl Ether)	P	14 min	21.8
109	89	7	Diethylamine	F	ID	ID
100	37	8	Diethylaminoethanol	E	>8 hrs	ND
123	91	1	Diethylene Ether (1,4-Dioxane)	P	28 min	77.1
123	91	1	Diethylene Oxide (1,4-Dioxane)	P	28 min	77.1
111	40	1	Diethylenetriamine	P	ID	ID
391	46	9	Diglycidyl Ether of Bisphenol A (DGEBA)(50%)	ID	ID	ID
108	83	8	Diisobutyl Ketone (80%)	F	2.9 hrs	49
110	96	3	Diisobutylamine	ID	ID	ID
108	18	9	Diisopropylamine	ID	ID	ID
127	19	5	Dimethyl Acetamide	ID	ID	ID
68	12	2	Dimethyl Formamide (DMF)	F	9 min	15
593	74	8	Dimethyl Mercury	ID	ID	ID
67	68	5	Dimethyl Sulfoxide	P	40 min	5.2
124	40	3	Dimethylamine	ID	ID	ID
109	55	7	Dimethylaminopropylamine	ID	ID	ID
108	1	0	Dimethylethanamine	ID	ID	ID
67	64	1	Dimethylketone (Acetone)	P	5 min	172
513	37	1	Dimethylvinylchloride	ID	ID	ID
2050	92	2	Di-n-Amylamine	ID	ID	ID
111	92	2	Di-n-Butylamine	ID	ID	ID
117	81	7	Dioctyl Phthalate	E	>8 hrs	ND
123	91	1	Dioxyethylene Ether (1,4-Dioxane)	P	28 min	77.1
1321	74	0	Divinyl Benzene (Vinylstyrene)	P	ID	ID
5989	27	5	d-Limonene	ID	ID	ID
			Dynasolve 18C	ID	ID	ID

		Dynasolve MP75C	ID	ID	ID
3132	64	7 Epibromohydrin	ID	ID	ID
106	89	8 Epichlorohydrin	P	ID	ID
		Epocast Epoxy Resin (Epocast 45A,			
		Epocast 45B, Ethyl Acetate	ID	ID	ID
		Epon 828 (50% in MEK)	ID	ID	ID
		EREM Solvent	ID	ID	ID
75	7	0 Ethanal (Acetaldehyde)	P	0 min	161
64	17	5 Ethanol (Ethyl Alcohol)	ID	ID	ID
60	29	7 Ether	P	14 min	21.8
687	47	8 Ethyl (s)-(-)-Lactate	ID	ID	ID
763	69	9 Ethyl 3-ethoxypropionate	ID	ID	ID
141	78	6 Ethyl Acetate (Acetic Ester)	P	8 min	145
140	88	5 Ethyl Acrylate	ID	ID	ID
64	17	5 Ethyl Alcohol (Ethanol)	ID	ID	ID
75	7	0 Ethyl Aldehyde (Acetaldehyde)	P	0 min	161
60	29	7 Ethyl Ether (Ethyl Oxide)	P	14 min	21.8
75	4	7 Ethylamine (70% in water) (Aminoethane)	F	1.1 hrs	30.1
74	96	4 Ethylbromide	ID	ID	ID
106	93	4 Ethylene Dibromide	P	ID	ID
107	6	2 Ethylene Dichloride (1,2-Dichloroethane)	P	8 min	82.7
107	21	1 Ethylene Glycol	ID	ID	ID
110	80	5 Ethylene Glycol Monoethyl Ether	ID	ID	ID
75	21	8 Ethylene Oxide	ID	ID	ID
107	15	3 Ethylenediamine	ID	ID	ID
97	63	2 Ethylmethacrylate	ID	ID	ID
13360	63	9 Ethyl-n-Butylamine	ID	ID	ID
50	0	0 Formaldehyde (37% in water) (Formic Aldehyd	E	>21 hrs	ND
110	0	9 Furan	P	ID	ID
98	1	1 Furfural (Furfuraldehyde)	P	24 min	265
111	30	8 Glutaraldehyde (25%)	P	ID	ID
111	30	8 Glutaraldehyde (7%)	P	4 min	0.44
151	67	7 Halothane	ID	ID	ID
77	47	4 Hexachlorocyclopentadiene	ID	ID	ID
110	82	7 Hexahydrobenzene (Cyclohexane)	P	ID	ID
108	93	0 Hexahydrophenol (Cyclohexanol)	E	>16 hrs	ND
999	97	3 Hexamethyldisilazane	ID	ID	ID
110	82	7 Hexamethylene (Cyclohexane)	P	ID	ID
110	82	7 Hexanaphthene (Cyclohexane)	P	ID	ID
		HTP-1061	ID	ID	ID
302	1	2 Hydrazine (70% in water)	E	>8 hrs	ND
10217	52	4 Hydrazine Hydrate	ID	ID	ID
7647	1	0 Hydrochloric Acid (37%)	G	>6 hrs	ND
7664	39	3 Hydrofluoric Acid (48%)	F	1 hr	0.49
7647	1	0 Hydrogen Chloride (gas)	ID	ID	ID
7722	84	1 Hydrogen Peroxide (30%)	ID	ID	ID
56	18	8 Iminobispropylamine	ID	ID	ID
74	88	4 Iodomethane (Methyl Iodide)	ID	ID	ID
110	46	3 Isoamylnitrite	ID	ID	ID
106	63	8 Isobutyl Acrylate	ID	ID	ID
78	83	1 Isobutyl Alcohol	G	>8 hrs	ND
542	56	3 Isobutyl Nitrite	ID	ID	ID
78	81	9 Isobutylamine	ID	ID	ID
78	84	2 Isobutyraldehyde	P	ID	ID
78	95	5 Isoprene	ID	ID	ID
67	63	0 Isopropyl Alcohol	E	>6 hrs	ND
4655	34	9 Isopropylmethacrylate	ID	ID	ID
108	94	1 Ketohexamethylene (Cyclohexanone)	P	ID	ID
		KT1 Silicon Etch I	ID	ID	ID
		KT1 Pad Etch I	ID	ID	ID
505	22	6 m-Dioxane	ID	ID	ID
79	41	4 Methacrylic Acid	P	1.7 hrs	23
126	98	7 Methacrylonitrile	P	7 min	560
67	56	1 Methanol	ID	32 min	11.8
67	66	3 Methenyl Trichloride (Chloroform)	P	4 min	352
67	56	1 Methyl Alcohol	ID	32 min	11.8
109	86	4 Methyl Cellosolve	F	55 min	13.2
74	87	3 Methyl Chloride	ID	ID	ID
71	55	6 Methyl Chloroform (1,1,1 Trichloroethane)	P	37 min	76.4
75	5	8 Methyl Cyanide (Acetonitrile)	ID	ID	ID
78	93	3 Methyl Ethyl Ketone	P	ID	ID
93	15	2 Methyl Eugenol	ID	ID	ID
74	88	4 Methyl Iodide	ID	ID	ID
624	83	9 Methyl Isocyanate	P	ID	ID
80	62	6 Methyl Methacrylate	ID	ID	ID
79	20	9 Methylacetate	ID	ID	ID

96	33	3	Methylacrylate	ID	ID	ID
74	89	5	Methylamine (40% in water) (Aminomethane)	E	>8 hrs	ND
108	88	3	Methylbenzene (Toluene)	P	11 min	68.1
75	9	2	Methylene Chloride (Dichloromethane)	P	4 min	766
8052	41	3	Mineral Spirits	E	>6hrs	ND
			Mission B Liquid	F	1 hr	48.7
141	43	5	Monoethanolamine	ID	ID	ID
78	96	6	Monoisopropanolamine	ID	ID	ID
75	31	0	Monoisopropylamine	ID	ID	ID
110	91	8	Morpholine	P	48 min	206
108	38	3	m-Xylene	ID	ID	ID
2680	3	7	n,n Dimethyl Acrylamide	ID	ID	ID
110	18	9	n,n,n,n-Tetramethylenediamine	ID	ID	ID
8052	41	3	Naphtha	E	>6 hrs	ND
109	73	9	n-Butylamine	ID	ID	ID
109	69	3	n-Butylchloride	ID	ID	ID
110	54	3	n-Hexane	E	ID	ID
54	11	5	Nicotine	ID	ID	ID
7697	37	2	Nitric Acid (17.5%) (Aqua Fortis)	P	ID	ID
7697	37	2	Nitric Acid (40%)	P	>6 hrs	ND
7697	37	2	Nitric Acid (70%)	ID	ID	ID
98	95	3	Nitrobenzene	F	29 min	1.7
79	24	3	Nitroethane	ID	ID	ID
75	52	5	Nitromethane	ID	ID	ID
872	50	4	n-Methyl-2-Pyrrolidone	F	1.45 hrs	0.388
109	83	1	n-Methylethanolamine	ID	ID	ID
109	66	0	n-Pentane (Alpha-n-Amylene)	E	ID	ID
109	60	4	n-Propyl Acetate	P	17 min	72.5
2210	28	8	n-Propylmethacrylate	ID	ID	ID
124	7	2	Octanoic Acid	ID	ID	ID
112	80	1	Oleic Acid	ID	ID	ID
95	53	4	Ortho Toluidine	ID	ID	ID
144	62	7	Oxalic Acid	G	ID	ID
144	62	7	Oxalic Acid (12.5% solution)	ID	ID	ID
			Oxide Etch (14% HF, 20% AIF, 15% Glycerol, 1% Triton X100, Water	ID	ID	ID
95	47	6	O-Xylene	ID	ID	ID
11097	69	1	PCB (Aroclor 1254 50%)	ID	ID	ID
123	91	1	p-Dioxane (1,4-Dioxane)	P	28 min	77.1
87	86	5	Pentachlorophenol (1% in kerosene)	ID	ID	ID
79	21	0	Peracetic Acid (40% in water)	ID	ID	ID
7601	90	3	Perchloric Acid (70%)	P	>8 hrs	ND
127	18	4	Perchloroethylene (Tetrachloroethylene)	F	1.3 hrs	5.5
56	23	5	Perchloromethane (Carbon Tetrachloride)	F	3.4 hrs	5
108	95	2	Phenol (85% in water)	P	39 min	>1500
62	53	3	Phenylamine (Aniline)	F	1.1 hrs	45
7664	38	2	Phosphoric Acid (85%)	G	>8 hrs	ND
108	94	1	Pimelic Ketone (Cyclohexanone)	P	ID	ID
1310	58	3	Potassium Hydroxide (50%)	E	>6 hrs	ND
123	38	6	Propionaldehyde	ID	ID	ID
107	12	0	Propionitrile	ID	ID	ID
109	60	4	Propyl Acetate	P	17 min	72.5
71	23	8	Propyl Alcohol	G	4.4 hrs	1.1
78	87	5	Propylene Dichloride	ID	ID	ID
75	56	9	Propylene Oxide (1,2-Epoxypropane)	ID	ID	ID
78	90	0	Propylenediamine	F	ID	ID
98	51	1	p-t Butyltoluene			
27138	21	2	p-t Butyltoluene (1-Methyl-4-tert-Butylbenzene)	P	ID	ID
106	42	3	p-Xylene	ID	ID	ID
110	86	1	Pyridine	P	ID	ID
13952	84	6	sec-Butylamine	ID	ID	ID
			Slope Etch (67% Phosphoric Acid, 20% Acetic Acid, 10% Nitric Acid, 1% Triton X100 in Water)	ID	ID	ID
1310	73	2	Sodium Hydroxide 50% (Caustic Soda)	E	>6 hrs	ND
8052	41	3	Stoddard Solvent	E	>6 hrs	ND
100	42	5	Styrene	P	11 min	>3.35
7664	93	9	Sulfuric Acid (50%)	E	>6 hrs	ND
7664	93	9	Sulfuric Acid (93%)	ID	ID	ID
7554	93	9	Sulfuric Acid (98%)	ID	ID	ID
60	29	7	Sulfuric Ether (Ethyl Ether)	P	14 min	21.8
75	64	9	t-Butylamine	ID	ID	ID
75	65	0	tert-Butyl Alcohol	ID	ID	ID
1634	4	4	tert-Butyl Methyl Ether	ID	ID	ID
127	18	4	Tetrachloroethylene	F	1.3 hrs	5.5
56	23	5	Tetrachloromethane (Carbon Tetrachloride)	F	3.4 hrs	5

112	57	2	Tetraethylenepentamine	F	ID	ID
116	14	3	Tetrafluoroethylene	ID	ID	ID
27029	5	6	Tetrafluoroethylene	ID	ID	ID
109	99	9	Tetrahydrofuran (THF)	P	0 min	167
68	11	1	Thioglycolic Acid	ID	ID	ID
110	2	1	Thiophene	P	ID	ID
108	88	3	Toluene (Methylbenzene)	P	11 min	68.1
26471	62	5	Toluene Diisocyanate (TDI)	G	3.7 hrs	1.8
156	60	5	trans-1,2-Dichloroethylene	ID	ID	ID
102	70	5	Triallylamine	ID	ID	ID
545	6	2	Trichloroacetonitrile	ID	ID	ID
79	1	6	Trichloroethylene (TRI)	P	4 min	283
67	66	3	Trichloromethane (Chloroform)	P	4 min	352
102	71	6	Triethanolamine	ID	ID	ID
121	44	8	Triethylamine	E	>8 hrs	ND
112	24	3	Triethylenetetramine	ID	ID	ID
824	11	3	Trimethylolpropane Phosphite (A-13)	ID	ID	ID
102	69	2	tri-n-propylamine	ID	ID	ID
1330	78	5	Tritolyl Phosphate	ID	ID	ID
110	59	8	Valeronitrile	ID	ID	ID
141	78	6	Vinegar Naphtha (Ethyl Acetate)	P	8 min	145
108	5	4	Vinyl Acetate	ID	ID	ID
75	1	4	Vinyl Chloride (Chloroethene)	ID	ID	ID
75	38	7	Vinylidene Fluoride	ID	ID	ID
1321	74	0	Vinylstyrene (Divinyl Benzene)	P	ID	ID
68916	39	2	Witch Hazel	ID	ID	ID
1330	20	7	Xylene (mixed)	F	21 min	18.5