



## **Chemical Compatibility Guide for: Best® Heavyweight Neoprene Gloves**

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Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure			ASTM F1383 Permeation Resistance to Limited Exposure			EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
			Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min						
<a href="#">Acetaldehyde</a>	75-07-0	100%	1	82	0	25	36	1	>E	E	E	E	
<a href="#">Acetic Acid</a>	64-19-7	84%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Acetone</a>	67-64-1	100%	35	52	2	43	10	2	>E	E	E	E	
<a href="#">Acetonitrile</a>	75-05-8	100%	65	1	3	72	0.5	3	>E	E	E	E	
<a href="#">Acetophenone</a>	98-86-2	100%	>480	ND	6	>240	ND	5	>E	G	G	P	
<a href="#">Acetoxycetyl Chloride</a>	13831-31-7	100%	>480	ND	6	>240	ND	5	>E	E	E	G	
<a href="#">Acrylamide</a>	79-06-1	50%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Acrylonitrile</a>	107-13-1	100%	27	42	1	59	15	2	>E	E	E	E	
<a href="#">Alkasol 27</a>	90111-76-3	10%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Allyl Alcohol</a>	107-18-6	99%	182	5	4	>240	ND	5	>E	E	E	E	
<a href="#">Allyl Alcohol</a>	107-18-6	100%	182	5	4	>240	ND	5	>E	E	E	E	
<a href="#">Alodine 1000 Solution</a>	97631-99-6	1%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Alodine 1200s Solution</a>	93755-29-8	2%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Ammonia (gas)</a>	7664-41-7	100%	29	2	1	NT	NT	NT	>E	E	E	E	
<a href="#">Ammonium Hydroxide</a>	1336-21-6	29%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Amyl Acetate</a>	628-63-7	100%	110	43	3	>240	ND	5	>E	G	G	P	
<a href="#">Amyl Alcohol</a>	71-41-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Aniline</a>	62-53-3	100%	32	8	2	>240	ND	5	>E	E	G	G	
<a href="#">Antimony Tributyrat</a>	53856-17-0	95%	>480	ND	6	>240	ND	5	>NT	NT	NT	NT	
<a href="#">Aqua Regia</a>	8007-56-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Battery Acid</a>	7664-93-9	47%	>480	ND	6	>240	ND	5	>E	E	E	E	
<a href="#">Benzaldehyde</a>	100-52-7	100%	93	24	3	93	22	3	>E	E	E	E	

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Benzene</a>	71-43-2	100%	15	285	1	44	27	2	>G	P	P	P
<a href="#">Benzene, 1-chloro-4-trifluoro</a>	98-56-6	100%	130	103	4	>480	ND	6	>G	F	P	P
<a href="#">Benzene, Trifluoromethyl</a>	98-08-8	100%	50	62	2	57	48	2	>G	G	F	P
<a href="#">Benzene, 1-chloro-2-methyl</a>	25168-05-2	100%	68	75	3	49	34	2	>F	P	NR	NR
<a href="#">Benzene, dichloro-4-trifluoro</a>	328-84-7	100%	266	221	5	>240	86	5	>G	F	P	NR
<a href="#">Benzyl Alcohol</a>	100-51-6	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Blasocut 2000 Universal</a>	98608-26-6	70%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Blasocut 2000 Universal</a>	98608-26-6	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Blasocut 4000</a>	94742-52-7	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Bleach: Sodium Hypochlorite (4-6%)</a>	7681-52-9	6%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Boric Acid-sulfuric Acid</a>	90043-35-4	1%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Boric Acid-sulfuric Acid</a>	90043-35-4	6%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Boric Acid-sulfuric Acid</a>	90043-35-4	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Bromoethyl Acetate, 2-</a>	927-68-4	100%	>480	ND	6	>240	ND	5	>E	E	G	G
<a href="#">Bromoform</a>	75-25-2	100%	NR	NR	0	74	43	3	>P	NR	NR	NR

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<a href="#">Brulin Mp 1793 Hydrocarbon Mixture</a>	64742-48-9	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Butadiene 1,3- (gas)</a>	106-99-0	100%	33	3	2	NT	NT	NT	>E	E	E	E
<a href="#">Butanol</a>	71-36-3	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Butoxypropanol</a>	5131-66-8	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Butoxytriglycol</a>	143-22-6	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Butyl Acetate</a>	123-86-4	100%	46	70	2	58	27	2	>E	G	F	P
<a href="#">Butyl Acrylate</a>	141-32-2	100%	44	21	2	60	0.9	3	>E	G	G	F
<a href="#">Butyl Carbitol Solvent</a>	112-34-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Butyl Cellosolve Acetate</a>	112-07-2	100%	>480	ND	6	>240	ND	5	>E	E	F	F
<a href="#">Butyl Cellosolve Solvent</a>	111-76-2	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Butyl Dipropasol Solvent</a>	29911-28-2	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Butyl Toluene P-tert-</a>	98-51-1	100%	158	18	4	>240	ND	5	>E	E	E	F
<a href="#">Butylamine</a>	109-73-9	100%	NR	NR	0	NT	NT	NT	>G	P	NR	NR
<a href="#">Caprinus U Multigrade Railroad Oil</a>	66532-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Carbitol Acetate</a>	112-15-2	98%	>480	ND	6	>240	ND	5	>E	E	E	G
<a href="#">Carbitol Acetate</a>	112-15-2	100%	>480	ND	6	>240	ND	5	>E	E	E	G
<a href="#">Carbon Disulfide</a>	75-15-0	100%	NR	NR	0	NT	NT	NT	>G	NR	NR	NR

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Carbon Tetrachloride</a>	56-23-5	100%	73	107	3	>240	29	5	>E	F	P	NR
<a href="#">Cascade Columbia 3 Part A</a>	90112-34-7	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Cellosolve Acetate</a>	110-80-5	100%	228	15	4	>240	ND	5	>E	E	E	G
<a href="#">Chevron Jet Fuel A</a>	94742-80-1	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Chlorine (gas)</a>	7782-50-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Chlorobenzene</a>	108-90-7	100%	NR	NR	0	30	91	2	>G	P	NR	NR
<a href="#">Chloroform</a>	67-66-3	100%	23	298	1	51	75	2	>G	P	NR	NR
<a href="#">Chromic Acid</a>	1333-82-0	50%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Citra-safe Deodorizer</a>	95989-27-5	100%	138	88	4	NT	NT	NT	>G	P	NR	NR
<a href="#">Citric Acid</a>	77-92-9	30%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Citrus Terpenes Mixture</a>	68956-56-9	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Cresols</a>	1319-77-3	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Cumene</a>	98-82-8	100%	60	19	3	>240	ND	5	>G	NR	NR	NR
<a href="#">Cyclohexane</a>	110-82-7	100%	228	8	4	>240	ND	5	>E	E	E	E
<a href="#">Cyclohexanol</a>	108-93-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Cyclohexanone</a>	108-94-1	100%	108	53	3	116	1	3	>E	G	F	NR
<a href="#">Daraclean 282</a>	90112-34-9	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Deoxidizer 16 Replenisher</a>	97664-39-5	40%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Desoclean 45 Mixture</a>	90067-63-1	50%	32	175	2	NT	NT	NT	>E	E	E	G
<a href="#">Desoclean 45 Mixture</a>	90067-63-1	100%	32	175	2	NT	NT	NT	>E	E	E	G

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<a href="#">Di-isobutyl Ketone</a>	108-83-8	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Dibutyl Phthalate N-</a>	84-74-2	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Dichlorobenzene O-</a>	95-50-1	100%	NR	NR	0	21	66	1	>G	P	P	NR
<a href="#">Dichloroethane 1,2-</a>	107-06-2	100%	16	136	1	>240	ND	5	>E	F	P	P
<a href="#">Diesel Fuel</a>	77650-28-3	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Diethanolamine</a>	111-42-2	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Diethylamine</a>	109-89-7	100%	13	136	1	50	115	2	>E	F	F	P
<a href="#">Diethylene Glycol</a>	111-46-6	99%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Diethylene Glycol Monomethyl Ether</a>	111-77-3	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Diethylene Glycol Monopropyl Ether</a>	6881-94-3	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Dimethyl Formamide</a>	68-12-2	100%	100	57	3	118	8	3	>E	E	E	G
<a href="#">Dimethyl Sulfate</a>	77-78-1	100%	15	47	1	60	29	3	>G	G	G	F
<a href="#">Dimethylacetamide N,n-</a>	127-19-5	100%	84	63	3	>240	ND	5	>E	E	E	E
<a href="#">Dimethylsulfoxide</a>	67-68-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Dinitrol Av30 Spray</a>	94894-36-1	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Dinitrol Av8 Mod</a>	94742-48-1	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Dinitrotoluene (40% In Roh)</a>	121-14-2	40%	283	0.4	5	>240	ND	5	>E	E	G	F
<a href="#">Dioxane 1,4-</a>	123-91-1	100%	63	112	3	90	9	3	>E	G	G	P
<a href="#">Divinyl Benzene</a>	1321-74-0	100%	NR	NR	0	103	27	3	>E	F	P	NR
<a href="#">Donax Tg Transmission Fluid</a>	60486-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Dowtherm, Biphenyl</a>	92-52-4	23%	>480	ND	6	>240	ND	5	>E	G	G	P
<a href="#">Dowtherm, Biphenyl</a>	92-52-4	27%	>480	ND	6	>240	ND	5	>E	G	G	P
<a href="#">Dowtherm, Biphenyl</a>	92-52-4	73%	>480	ND	6	>240	ND	5	>E	G	G	P
<a href="#">Dubl-chek Penetrant Mixture</a>	68131-40-8	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Epichlorohydrin</a>	106-89-8	100%	13	163	1	64	7	3	>E	G	G	F
<a href="#">Ethanol</a>	64-17-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Ethanolamine</a>	141-43-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Ethoxytriglycol</a>	112-50-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Ethyl Acetate</a>	141-78-6	100%	24	195	1	88	15	3	>E	G	G	F
<a href="#">Ethyl Benzene</a>	100-41-4	100%	31	125	2	43	31	2	>G	F	P	NR
<a href="#">Ethyl Butanol</a>	97-95-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Ethyl Ether</a>	60-29-7	100%	12	112	1	19	52	1	>E	G	G	G
<a href="#">Ethylene Glycol</a>	107-21-1	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Ethylene Glycol Monoethyl Ether</a>	112-25-4	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Ethylene Oxide (gas)</a>	75-21-8	100%	21	500	1	NT	NT	NT	>E	E	E	E
<a href="#">Ethylenediamine</a>	107-15-3	99%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Ethylenediamine</a>	107-15-3	100%	>480	ND	6	>240	nd	5	>E	E	E	E
<a href="#">Fcc-55</a>	90108-10-2	100%	16	106	1	NT	NT	NT	>E	E	G	F
<a href="#">Fluoboric Acid</a>	16872-11-0	49%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Formaldehyde</a>	50-00-0	37%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Formic Acid</a>	64-18-6	90%	>480	ND	6	>240	ND	5	>E	E	E	E

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<a href="#">Freon 113</a>	76-13-1	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Furfural</a>	98-01-1	100%	116	8	3	>240	ND	5	>E	E	E	E
<a href="#">Gasoline (unleaded)</a>	8006-61-9	100%	46	50	2	>240	ND	5	>E	E	E	F
<a href="#">Glutaraldehyde</a>	111-30-8	50%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Heptane</a>	142-82-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Hexane</a>	110-54-3	100%	173	8	4	>240	ND	5	>E	E	E	E
<a href="#">Hexene</a>	592-41-6	100%	47	54	2	45	11	2	>E	E	E	F
<a href="#">Hexyl Carbitol Solvent</a>	112-59-4	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Huntsman Dimethylcyclohexyl Amine</a>	98-94-2	100%	105	69	3	NT	NT	NT	>NT	NT	NT	NT
<a href="#">Huntsman Dimethylpiperazine</a>	106-58-1	100%	60	42	3	NT	NT	NT	>NT	NT	NT	NT
<a href="#">Huntsman Jeffcat Dmdee</a>	6425-39-4	100%	225	69	4	NT	NT	NT	>NT	NT	NT	NT
<a href="#">Huntsman Methylmorpholine</a>	7529-22-8	65%	>480	ND	6	>240	ND	5	>NT	NT	NT	NT
<a href="#">Hydrazine Hydrate</a>	302-01-2	85%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Hydrazine, Dimethyl</a>	57-14-7	100%	240	24	5	NT	NT	NT	>NT	NT	NT	NT
<a href="#">Hydrochloric Acid</a>	7647-01-0	10%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Hydrochloric Acid</a>	7647-01-0	37%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Hydrochloric Acid</a>	7647-01-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Hydrofluoric Acid</a>	7664-39-3	48%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Hydrofluoric Acid</a>	7664-39-3	100%	210	5.2	4	NT	NT	NT	>E	E	E	E



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<a href="#">Hydrogen Chloride (gas)</a>	1/2/7647	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Hydrogen Fluoride (gas)</a>	7664-39-2	100%	210	5.2	4	NT	NT	NT	>E	E	E	E
<a href="#">Hydrogen Peroxide</a>	7722-84-1	30%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Iso Amyl Acetate</a>	123-92-2	100%	71	64	3	106	21	3	>E	G	G	P
<a href="#">Iso Amyl Alcohol</a>	123-51-3	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Iso-butanol</a>	78-83-1	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Iso-octane</a>	540-84-1	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Isopropyl Acetate</a>	108-21-4	49%	26	70	1	43	30	2	>E	G	G	F
<a href="#">Isopropyl Acetate</a>	108-21-4	98%	26	70	1	43	30	2	>E	G	G	F
<a href="#">Isopropyl Acetate</a>	108-21-4	100%	26		1	NT	30	NT	>E	G	G	F
<a href="#">Isopropyl Alcohol</a>	67-63-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Jet Fuel Jp-4</a>	94742-47-9	100%	287	57	5	>240	ND	5	>E	E	E	E
<a href="#">Jet Fuel Jp-8</a>	98008-20-6	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Kerosene</a>	8008-20-6	100%	223	7	4	>240	ND	5	>E	E	E	E
<a href="#">Lacquer Thinner 1025 Star Brand</a>	74475-85-6	100%	23	239	1	NT	NT	NT	>E	F	F	P
<a href="#">Lacquer Thinner 305 Acme Brand</a>	80108-88-6	100%	NR	NR	0	NT	NT	NT	>G	F	P	NR
<a href="#">Lacquer Thinner 887 Acme Brand</a>	70108-88-6	100%	21	371	1	NT	NT	NT	>E	G	F	NR
<a href="#">Lacquer Thinner Ez Brand</a>	90108-88-6	100%	22	223	1	NT	NT	NT	>E	G	F	P
<a href="#">Lacquer Thinner Rk120 Sherwin Williams</a>	94475-85-6	100%	44	134	2	NT	NT	NT	>E	G	G	F

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Lacquer Thinner Rk22 Sherwin Williams Brand</a>	84475-85-6	100%	46	151	2	NT	NT	NT	>E	G	G	F
<a href="#">Lactic Acid</a>	50-21-5	85%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Lauric Acid (35% Etoh)</a>	143-07-7	35%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Limonene D-</a>	5989-27-5	100%	114	14	3	>240	ND	5	>E	E	G	F
<a href="#">Madrella P 150 Oil</a>	56930-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Mek/sba</a>	90078-92-3	100%	93	13	3	NT	NT	NT	>E	E	E	E
<a href="#">Methanol</a>	67-56-1	100%	64	6	3	>240	ND	5	>E	E	E	E
<a href="#">Methoxytriglycol</a>	112-35-6	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Methyl Acetate</a>	79-20-9	100%	20	116	1	32	19	2	>E	E	G	G
<a href="#">Methyl Chloride (gas)</a>	74-87-3	100%	84	0.12	3	NT	NT	NT	>E	E	E	E
<a href="#">Methyl Ethyl Ketone</a>	78-93-3	100%	30	88	2	90	28	3	>E	G	G	F
<a href="#">Methyl Ethyl Ketoxime</a>	96-29-7	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Methyl Iodide</a>	74-88-4	100%	NR	NR	0	21	92	1	>P	NR	NR	NR
<a href="#">Methyl Isobutyl Ketone</a>	108-10-1	100%	41	85	2	104	32	3	>E	E	G	F
<a href="#">Methyl Isobutyl Ketoxime</a>	105-44-2	100%	>480	ND	6	>240	ND	5	>NT	NT	NT	NT
<a href="#">Methyl Methacrylate</a>	80-62-6	100%	27	144	1	40	77	2	>E	G	F	P
<a href="#">Methyl Propasol Solvent</a>	107-98-2	100%	>480	ND	6	>240	ND	5	>E	E	E	P

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Methyl Propyl Ketone</a>	107-87-9	100%	17	73	1	NT	NT	NT	>E	E	G	F
<a href="#">Methyl Pyrrolidone N</a>	872-50-4	100%	140	19	4	>240	ND	5	>E	E	E	G
<a href="#">Methyl-tert-butyl Ether</a>	1634-04-4	100%	48	101	2	50	94	2	>E	E	G	P
<a href="#">Methylamine</a>	74-89-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Methylene Bisphenyl Isocyanate</a>	101-68-8	100%	>480	ND	6	>240	ND	5	>NT	NT	NT	NT
<a href="#">Methylene Chloride</a>	75-09-2	100%	4	588	0	18	40	1	>G	NR	NR	NR
<a href="#">Methylenedianiline 4,4- (190 C)</a>	101-77-9	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Microcut 26</a>	98330-12-9	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Mineral Oil - Light</a>	8012-95-1	100%	NT	NT	6	NT	NT	NT	>E	E	E	E
<a href="#">Mineral Spirits</a>	64475-85-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Morpholine</a>	110-91-8	100%	56	119	2	226	1	4	>E	E	G	F
<a href="#">Muriatic Acid (10% Hcl)</a>	1/1/7647	10%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Naphtha</a>	8032-32-4	100%	99	10	3	>240	ND	5	>E	E	E	E
<a href="#">Nitric Acid</a>	7697-37-1	23%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Nitric Acid</a>	7697-37-2	23%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Nitric Acid</a>	7697-37-2	70%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Nitric/hydrofluoric Pickling Solution</a>	97697-37-4	50%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Nitrobenzene</a>	98-95-3	100%	136	22	4	160	7	4	>E	F	F	NR
<a href="#">Nitromethane</a>	75-52-5	100%	128	5	4	144	1.3	4	>E	E	E	E

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Nitropropane</a>	79-46-9	100%	98	45	3	136	24	4	>E	E	G	G
<a href="#">Nycote 7-11 Mixture</a>	90064-17-7	100%	168	37	4	NT	NT	NT	>E	E	E	E
<a href="#">Octanol N-</a>	111-87-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Oleic Acid</a>	112-80-1	98%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Olive Oil</a>	8001-25-0	100%	NT	NT	6	NT	NT	NT	>E	E	E	E
<a href="#">Oxybisbenzene, 1,1-(dowtherm)</a>	101-84-8	73%	>480	ND	6	>240	ND	5	>E	G	G	P
<a href="#">Pcbs (acroclor 1254)</a>	11097-69-1	100%	199	406	4	NT	NT	NT	>E	G	F	P
<a href="#">Pentachlorophenol (5% In Kerosene)</a>	87-86-5	5%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Pentane</a>	109-66-0	100%	84	32	3	191	0.2	4	>E	E	E	E
<a href="#">Perchloroethylene</a>	127-18-4	100%	40	299	2	66	1	3	>G	P	NR	NR
<a href="#">Phenol</a>	108-95-2	100%	72	12	3	>240	ND	5	>E	E	E	E
<a href="#">Phosphoric Acid</a>	7664-38-2	85%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Potassium Hydroxide</a>	1310-58-3	45%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Propanediamine, N,n'-dimethyl</a>	109-55-7	100%	105	69	3	NT	NT	NT	>NT	NT	NT	NT
<a href="#">Propanol N-</a>	71-23-8	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Propoxypropanol</a>	1569-01-3	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Propyl Acetate</a>	109-60-4	100%	39	111	2	68	17	3	>E	G	F	P
<a href="#">Propyl Cellosolve N-</a>	2807-30-9	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Propylene Glycol</a>	57-55-6	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Propylene Oxide</a>	75-56-9	100%	11	204	1	28	18	1	>G	G	F	F
<a href="#">Pseudocumene</a>	95-63-6	98%	83	36	3	83	12	3	>E	E	P	NR
<a href="#">Pyridine</a>	7291-22-7	100%	NR	NR	0	39	8	2	>E	F	P	P

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Refrigerant 123a</a>	306-83-2	100%	73	62	3	NT	NT	NT	>E	E	E	E
<a href="#">Refrigerant 141b</a>	1717-00-6	100%	68	2668	3	NT	NT	NT	>E	G	F	F
<a href="#">Roundup (concentrated)</a>	1071-83-6	100%	15	4	1	NT	NT	NT	>E	E	E	E
<a href="#">Safrotin</a>	31218-83-4	50%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shell Aeroshell Grease 22</a>	56280-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shell Alvania Grease 3</a>	57120-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shell Diala Oil Ax Base Oil</a>	60030-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shell Fire &amp; Ice 2000 10w Oil</a>	60015-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shell Hvi 100 Neutral Mg</a>	63050-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shell Rotella T Multi 15w Oil</a>	71630-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shell Spirax S 85w-140 Oil</a>	86404-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shell Turbo T 68 Hydraulic Fluid</a>	60220-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Shellwax 100</a>	8210-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Skydrol 500 B-4</a>	126-73-8	100%	>480	ND	6	>240	ND	5	>E	E	E	G
<a href="#">Skydrol Ld-4 Hydraulic Fluid</a>	2528-36-1	100%	>480	ND	6	>240	ND	5	>E	E	G	F
<a href="#">Sodium Hydroxide</a>	1310-73-2	50%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Stoddard Solvent</a>	8052-41-3	100%	>480	ND	6	>240	ND	5	>E	E	E	E

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Styrene</a>	100-42-5	100%	NR	NR	0	37	199	2	>G	P	NR	NR
<a href="#">Sulfuric Acid</a>	7664-93-9	47%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Sulfuric Acid</a>	7664-93-9	97%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Tannic Acid</a>	1401-55-4	50%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Tetrahydrofuran</a>	109-99-9	100%	13	240	1	17	36	1	>E	F	P	NR
<a href="#">Toluene</a>	108-88-3	100%	25	349	1	33	112	2	>G	F	P	NR
<a href="#">Toluene Diisocyanate</a>	584-84-9	100%	201	3	4	>240	ND	5	>E	E	E	G
<a href="#">Toluene/mek Mixture (65:3 Ratio)</a>	90108-88-5	65%	28	262	1	NT	NT	NT	>F	P	NR	NR
<a href="#">Toluidine,o-</a>	95-53-4	100%	173	9	4	>240	ND	5	>E	E	G	F
<a href="#">Trichlorobenzene 1,2,4-</a>	120-82-1	100%	NR	NR	0	113	16	3	>E	F	P	NR
<a href="#">Trichloroethane 1,1,1-</a>	71-55-6	100%	51	146	2	137	0.3	4	>E	F	P	NR
<a href="#">Trichloroethylene</a>	79-01-6	100%	12	376	1	25	48	1	>G	P	NR	NR
<a href="#">Tricresyl Phosphate</a>	1330-78-5	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Triethanolamine</a>	120-71-6	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Turco 5351 Mixture</a>	90075-09-4	100%	14	370	1	NT	NT	NT	>G	F	P	P
<a href="#">Turco 6709</a>	90107-98-4	100%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Turpentine</a>	8006-64-2	100%	362	12	5	>240	ND	5	>E	E	E	E
<a href="#">Ucon Quenchant A-ro Mixture</a>	97632-00-0	55%	>480	ND	6	>240	ND	5	>E	E	E	E
<a href="#">Urethane Catalyst Alkanol</a>	83016-70-0	100%	120	26	4	NT	NT	NT	>NT	NT	NT	NT

Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm <sup>2</sup> /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
<a href="#">Vegetable Oil</a>	8001-30-7	100%	NT	NT	6	NT	NT	NT	>E	E	E	E
<a href="#">Vinyl Acetate</a>	108-05-4	100%	25	186	1	45	4	2	>E	G	P	P
<a href="#">Vinyl Chloride (gas)</a>	75-01-4	100%	7	19	0	NT	NT	NT	>E	E	E	E
<a href="#">Vinylidene Chloride</a>	75-35-4	100%	NR	NR	0	13	65	1	>F	P	NR	NR
<a href="#">Xylene</a>	1330-20-7	100%	37	225	2	>240	ND	5	>G	P	P	NR

## EN 374 RATINGS

Rating	Description
0	10 minutes breakthrough time; Dangerous selection.
1	> 10 minutes breakthrough time; Very poor; Splashes only; Change quickly.
2	> 30 minutes breakthrough time; Poor choice; Change quickly when exposed.
3	> 60 minutes breakthrough time; Sometimes satisfactory; Change soon after exposure.
4	> 120 minutes breakthrough time; Good selection; Change after two hours.
5	> 240 minutes breakthrough time; Next best selection; Change after four hours.
6	> 480 minutes breakthrough time; Safest best selection with high rating attainable.

## Cut Resistance Ratings

Rating	Description
0	< 200 grams of weight needed to cut through material with 25 mm of blade travel
1	> 200 grams of weight needed to cut through material with 25 mm of blade travel
2	> 500 grams of weight needed to cut through material with 25 mm of blade travel
3	> 1000 grams of weight needed to cut through material with 25 mm of blade travel
4	> 1500 grams of weight needed to cut through material with 25 mm of blade travel
5	> 3000 grams of weight needed to cut through material with 25 mm of blade travel

Degradation is the physical change in a glove after chemical exposure. Typical effects may be swelling, wrinkling, deterioration, or delamination. There are no accepted standards for measuring degradation. Best degradation testing is based on a protocol considered by the ASTM F23 Protective Clothing Committee. One side of the glove material is exposed to the test chemical for four hours. The percent weight change is measured at four time intervals: 5, 30, 60 and 240 minutes. The gravimetric ratings are ranked as shown below.

<u>Key</u>	<u>Rating</u>	<u>Weight Change</u>
E	Excellent	0-10%
G	Good	11-20%
F	Fair	21-30%
P	Poor	31-50%
NR	Not Recommended	Above 50%

Where degradation rating is poor (P) or not recommended (NR) after 60 minutes, the material is not tested for permeation resistance. Permeation results are listed as not recommended (NR) because of severe degradation. **WARNING:** Weight change is only our measure of degradation and does not account for certain physical changes such as hardening of PVC.