

Chemical Resistance of Garlock Graph-Lock® Gaskets

A general guide for selection of gasketing material, Rev. 4/07

KEY: A = Suitable
 B = Depends on operating conditions
 C = Unsuitable
 – = No data or insufficient evidence

Medium	Temperature + Concentration		Garlock Graph-Lock® Style Numbers			
			3120 3123/3125	3124/3126 3125SS 3125TC 3128	3125HC (H276)	3125MC (Mylar- polyester)
	°C	%				
Acetaldehyde (Ethanol)		100	A	A	A	C
Acetate Solvents		100	A	A	A	–
Acetic Acid (Ethanoic Acid)	Cold	Conc.	A	A	A	A
Acetic Acid (Ethanoic Acid)	Cold	Dilute	A	A	A	A
Acetic Acid (Ethanoic Acid)	Hot	Conc.	A	A	A	A (80%, 250F)
Acetic Acid (Ethanoic Acid)	Hot	<15	A	A	A	A (at 250F)
Acetic and Propionic Acid	Cold		A	A	A	–
Acetic Anhydride (Ethanoic Anhydride)	20		A	A	A	C
Acetone, Dry			A	A	A	B
Acetylene Gas			A	A	A	–
Acrylonitrile			A	A	–	A (at 70F)
Air	<400		A	A	A	A
Air	<245		A	A	A	A
Alcohol (Ethyl)			A	A	A	–
Aldehyde			A	A	A	–
Alkanes			A	A	–	–
Alkyl Acetone			A	A	–	–
Alkyl Alcohol			A	A	A	–
Alkyl Amine			A	A	A	–
Alkyl Arylsulphonics			A	A	–	–
Alkyl Benzene			A	A	A	–
Alkyl Chloride			A	A	A	C
Alkylate, Light			A	A	A	–
Alpha Picoline			A	A	–	–
Alum Solution			A	B	A	A (at 150F)
Aluminum Chloride		All	A	B	B	A
Aluminum Hydroxide (Boehmite)			A	A	B	A (at 300F)
Aluminum Sulfate, Aqueous			A	A	A	A
Amine, Fat Condensate			A	A	A	–
Ammonia, Anhydrous	<50		A	A	A	–
Ammonia, Aqua	<50	>10	A	A	B	A
Ammonia, Aqua	<50	<10	A	A	B	A
Ammonia, Gas (dry)			A	A	A	A (at 150F)
Ammonium Bicarbonate (Aqueous)			A	A	A	A (at 130F)
Ammonium Bifluoride			A	B	A	–
Ammonium Bisulfate			A	–	–	–
Ammonium Carbonate			A	A	A	A (at 300F)
Ammonium Chloride (Sal Ammoniac)			A	A	A	A (at 150F)
Ammonium Hydroxide			A	A	A	B
Ammonium Nitrate			A	A	A	A (at 100F)
Ammonium Persulfate			A	B	B	A (at 150F)
Ammonium Phosphate (Mono-Basic)			A	A	A	A (at 100F)
Ammonium Phosphate (Di-Basic)			A	A	A	–

Call Gasket Applications Engineering at 1-800-448-6688 for specific recommendations.

WARNING:

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	°C	%				
Ammonium Phosphate (Tri-Basic)			A	A	A	–
Ammonium Sulfate (Aqueous)	Any	All	A	A	A	A (at 150F)
Ammonium Thiocyanate		0-63	A	A	–	A (at 70F)
Amyl Acetate			A	A	A	C
Amyl Alcohol			A	A	A	A (at 200F)
Amyl Nitrate			A	A	–	–
Aniline (Aminobenzene)			A	A	A	B
Aniline Hydrochlorine	All	0-60	A	C	C	C
Anti-Freeze (Water, Alcohol, and Glycol)			A	A	A	C
Aqua Regia			C	C	C	C
Argon Gas			A	A	A	–
Arochlor 1248			A	A	A	–
Aromatic Fuels			A	A	A	B
Arsenic Acid, (Ortho)			A	A	A	A
Arsenic Trichloride		100	A	–	–	–
Asphalt			A	A	A	–
Aureomycin		100	A	–	–	–
Barium Carbonate (Sat'd)			A	B	B	A (at 250F)
Barium Chloride (Aqueous)		<20	A	A	A	A (at 250F)
Barium Hydroxide			A	B	B	B
Barium Nitrate (Aqueous)			A	B	–	A (at 170F)
Barium Sulfide (sat'd)			A	B	–	–
Beer			A	A	A	A (at 70F)
Beer Wort			A	A	A	–
Beet Juice			A	A	A	–
Beet Pulp			A	A	A	–
Beet Sugar Solution			A	A	A	A
Benzene (Coal tar product) (Benzol)			A	A	A	B
Benzene Hexachloride		100	A	–	–	–
Benzine (Petroleum Product)			A	A	A	–
Benzoic Acid			A	A	A	A (at 250F)
Benzoic Acid Solution			A	A	A	A
Benzol			A	A	A	–
Benzyl Sulfonic Acid		60	A	–	–	B
Bichloride of Mercury	Amb.		A	–	–	–
Bittern			–	–	–	–
Black Liquor			A	A	B	–
Bleach Solutions			A	A	A	–
Blood			A	A	–	–
Boiler Feed Water			A	A	A	–
Bonderite Solution			A	A	–	–
Borax Sol. (Sodium Tetraborate)			A	A	A	–
Boric Acid	95	50	A	A	A	A (at 200F)
Boric Acid, Aqueous	Any	All	A	A	A	A
Boron Trichloride			A	A	A	–
Brine Calcium pH 8			A	A	A	–
Brine, Calcium and Magnesium Chloride)			A	A	A	–
Brine, Calcium and Sodium Chloride			A	A	A	–
Brine, Chloride pH 8			A	A	A	–
Brine, Sea water	<80		A	B	A	A
Brine, Sodium Chloride			A	C	A	–

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	°C	%				
Bromine (Br2)			C	C	C	C
Bromine, Wet (HBr)			A	C	A	C
Bromo Methane			A	A	-	-
Bunker C Fuel oil			A	A	A	-
Butadiene			A	A	A	B
Butane (LPG)			A	A	A	-
Butanol (Butyl Alcohol)		100	A	A	A	C
Butyl Acetate			A	A	A	A (at 250F)
Butyl Alcohol (Butanol)			A	A	A	C
Butyl Cellosolve		0-100	A	-	-	-
Butyl Phthalate	<48		A	A	A	-
Butylacrylate			A	-	-	-
Butylamine			A	A	A	-
Butylene (Butene) (Ethylethylene)			A	A	A	-
Butyric Acid (Butanic Acid)		100	A	B	A	C
Calcium Bisulfide			A	A	A	-
Calcium Bisulfite		100	A	A	B	C
Calcium Carbonate (Aragonite)			A	A	A	A (at 250F)
Calcium Chlorate (Aqueous)	<60	0-10	A	C	A	-
Calcium Chloride (Wet)			A	B	A	A (at 250F)
Calcium Hydroxide (Aqueous) (Lime Water)			A	A	A	A (at 200F)
Calcium Hypochlorite	<32		A	A	A	A (at 250F)
Calcium Magnesium Chloride			A	A	A	-
Calcium Phosphate			A	A	A	-
Calcium Sulfate			A	B	B	A (at 100F)
Cane Juice			A	A	A	-
Carbolic Acid (Phenol)	Amb.		A	A	A	-
Carbolic Acid (Phenol)	205	All	A	A	A	-
Carbon Bisulfide			A	A	A	C
Carbon Dioxide (Dry)	600		A	A	A	B
Carbon Dioxide (Wet)	600		A	A	A	B
Carbon Disulfide			A	A	A	C
Carbon Monoxide			A	A	A	A (at 200F)
Carbon Tetrachloride (Anhydrous)			A	A	A	C
Carbonate of Soda (Aqueous)			A	A	A	
Carbonic Acid, Aqueous			A	A	A	A (at 150F)
Catsup			A	A	A	-
Caustic (Chloride of Sodium)			A	C	A	-
Caustic Cyanogen			A	A	A	-
Caustic Potash (Aqueous)			A	B	B	-
Caustic Soda (Aqueous)			A	A	A	-
Caustic Strontia (Aqueous)			A	-	-	-
Caustic Sulfide			A	-	-	-
Caustic Zinc Chloride (Aqueous)			A	-	-	-
Cellosolve Solvent		0-100	A	-	-	B
Chloral Hydrate			A	-	-	C
Chlorethylbenzene		100	A	-	-	-
Chloride of Lime			A	C	A	-
Chloride of Zinc (Aqueous)			A	-	A	-
Chlorinated Solvents (Dry)			A	A	A	-
Chlorinated Solvents (Wet)			A	A	A	-

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			3120 3123/3125	3124/3126 3125SS 3125TC 3128	3125HC (H276)	3125MC (Mylar- polyester)
	°C	%				
Chlorine (Dry)			A	B	A	C
Chlorine (Wet)	<22		A	C	A	C
Chlorine Dioxide	<70		A	–	–	–
Chlorine, Anhydrous Liquid			A	B	C	C
Chloroacetic Acid (Ethyl Chloracetate)			A	C	A	–
Chloroacetone			A	A	–	–
Chlorobenzene			A	A	A	A (at 100F)
Chloroform			A	A	A	A (at 100F)
Chloropicrin			A	A	A	–
Chlorosulfonic Acid	Cool	<50	A	C	A	C
Chrome Alum			A	A	–	–
Chromic Acid, Aqueous	Cool	<90	A	B	A	A (at 200F)
Chromic Oxide (Aqueous)		50	B	–	B	B
Chromium Potassium Sulfate (Aqueous)		10	A	A	–	–
Citric Acid, Aqueous	Hot		A	A	A	A (at 100F)
Cocoa Butter			A	A	A	–
Cocoanut Acid, Fatty			A	A	A	–
Cocoanut Oil			A	A	A	B
Cod Liver Oil			A	A	A	–
Condensate (Water)			A	A	A	A
Copper Acetate (Blue Verdigris)			A	A	A	–
Copper Ammonium Acetate (Aqueous) CAA			A	A	A	–
Copper Chloride			A	C	–	A (at 150F)
Copper Cyanide			A	B	A	–
Copper Nitrate			A	A	B	A (at 150F)
Copper Sulfate (Blue Vitriol) (Aqueous)	Any	All	A	–	–	–
Copper Sulfate (Blue Vitriol) (Aqueous)		10	A	B	A	A (at 150F)
Copper Sulfate (Blue Vitriol) (Aqueous)		50	A	B	A	A (at 150F)
Copperas (Green)			A	–	–	–
Corn Oil			A	A	A	A
Cotton Seed Oil			A	A	A	A (at 150F)
Creosol, Meta			A	A	B	C
Creosote (Coal Tar)			A	A	A	–
Cresylic Acid (Alkyl Phenols)			A	A	A	A (at 200F)
Crude Oil			A	A	A	A (at 150F)
Cupric Chloride	Any	All	A	–	–	A (at 250F)
Cupric Sulfate (Aqueous)			A	A	B	–
Cuprous Ammonia Acetate (Aqueous)			A	A	A	–
Cutting Oil			A	A	A	–
Cyanide (Aqueous)			A	–	–	–
Cyanogen in Water			A	A	–	–
Cyclohexane (Hexahydrobenzene)			A	A	A	–
Cyclohexanone			A	A	A	A (at 70F)
Cyclohexene ((Tetrahydrobenzene)			A	A	A	–
DDT Solution (Kerosene solvent)			A	A	A	–
DDT Solution (Toluene solvent)			A	A	A	–
De-Butanizer Reflux			A	A	A	–
De-Ethanizer Charge			A	A	A	–
De-Propanizer Reflux			A	A	A	–
Deoxidine		<60	A	–	–	–
Diacetone Alcohol			A	A	A	–

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	°C	%				
Dibromoethyl Benzene			A	A	A	–
Dibutyl Amine			A	A	A	–
Dibutyl Cellusolve Adipate			A	A	A	–
Dibutyl Phthalate			A	A	–	B
Dibutylether			A	A	A	–
Dichlorobenzene			A	A	A	C
Dichloroethane			A	A	A	B
Dichloropropionic Acid	<170	90-100	A	–	–	–
Diesel Fuel			A	A	A	A (at 150F)
Diethanolamine (DEA)			A	A	A	A (at 250F)
Diethyl Carbonate (Ethyl Carbonate)			A	A	A	–
Diethyl Ether			A	B	B	–
Diethylene			A	–	–	–
Diethylene Glycol			A	A	B	B
Diethylene Glycol Ethyl Ether			A	–	–	–
Diethylene Triamine			A	A	A	–
Di-isobutyl Ketone			A	A	A	–
Di-isopropyl Ketone			A	A	A	–
Dimethyl Amine			A	–	–	C
Dimethyl Formaldehyde			A	A	A	–
Dimethyl Formamide			A	B	–	A (at 167F)
Dimethyl Hydrazine (UDMH)			A	A	A	–
Dimethyl Phthalate			A	–	–	A (at 200F)
Dimethyl Terephthalate			A	A	A	–
Dinitrochlorobenzene (DNCB)			A	A	A	–
Dinitrochlorobenzene and Styrene			A	A	A	–
Dinitrotoluene			A	–	–	–
Diocetyl-amine			A	A	A	–
Diocetyl Phthalate			A	A	A	B
Dioxane		0-100	A	–	–	A (at 167F)
Diphenyl			A	A	A	C
Dish Water			A	A	A	A
Dow Corning Silicone Fluid			A	A	A	–
Dowtherm A (dry)			A	A	A	–
Dowtherm E (dry)			A	B	A	–
Dye Wood Liquor			A	–	–	–
Ethane (Methylmethane)			A	A	A	–
Ethanol (Ethyl Alcohol)			A	A	A	C
Ethanolamine			A	A	A	–
Ether			A	A	A	–
Ethyl Acetate			A	A	A	C
Ethyl Acrylate			A	A	A	B
Ethyl Alcohol (Ethanol)		100	A	A	A	A (at 167F)
Ethyl Alcohol (Ethanol)		35	A	A	A	A (at 167F)
Ethyl Benzene			A	A	A	C
Ethyl Benzoate			A	–	–	–
Ethyl Cellosolve			A	–	–	–
Ethyl Chloride (Dry) (Chloroethane)			A	A	B	C
Ethyl Chlorocarbonate			A	–	–	–
Ethyl Chloroformate			A	–	–	–
Ethyl Chlorohydrin			A	–	–	–

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	°C	%				
Ethyl Ether (Ethyl Oxide)			A	B	B	C
Ethyl Formate			A	-	-	-
Ethyl Hexanol			A	-	-	-
Ethyl Pyridine			A	A	A	-
Ethylene (Ethene)			A	A	A	-
Ethylene Chloride (Ethylene Dichloride)			A	A	B	C
Ethylene Chlorohydrin		0-8	A	B	B	C
Ethylene Diamine			A	B	B	-
Ethylene Dibromide		100	A	-	-	-
Ethylene Dichloride (Ethylene Chloride)		100	A	A	B	C
Ethylene Glycol			A	A	A	C
Ethylene Oxide		100	A	A	A	C
Ethylene Oxide and Freon 12		12/80	A	A	A	-
Ethylene Trichloride			A	-	A	-
Ethylene Vinyl Acetate			A	-	-	-
Fatty Acid, Oleic.	95		A	B	A	A (at 150F)
Ferric Chloride (Aqueous)			A	C	A	A (at 200F)
Ferric Nitrate (Sat'd)			A	B	B	-
Ferric Sulfate (Aqueous)			A	A	A	A (at 150F)
Ferrous Chloride (Sat'd)			A	C	B	A (at 200F)
Ferrous Sulfate			A	B	B	A (at 200F)
Fluoboric Acid			A	B	A	B
Fluorine	<149	100	A	A	B	C
Fluorolube			A	A	A	-
Fluosilicic Acid			A	B	C	-
Folic Acid			A	-	-	-
Formaldehyde (Methanol)			A	A	B	B
Formalin		40	A	A	A	-
Formalin R Formaldehyde			A	-	-	-
Formic Acid (Methanoic Acid)	Any	All	A	-	-	A (at 200F)
Formic Acid (Methanoic Acid)	Hot	90	A	B	A	A (at 200F)
Freon 11 and Refrig. Oil			A	A	A	-
Freon 12 and Refrig. Oil			A	A	A	-
Freon 22 and Refrig. Oil			A	A	A	-
Freon 113 and Refrig. Oil			A	A	A	-
Freon 114 and Refrig. Oil			A	A	A	-
Freon 121 and Refrig. Oil			A	A	A	-
Freon 134			-	-	-	-
Freon, Liquid			A	A	A	-
Fruit Acid			A	A	A	-
Fruit Juices			A	A	A	A
Fuel Oil			A	A	A	A (at 100F)
Fuel Oil, Acidic			A	A	A	-
Fuel Oil #6			A	A	A	-
Furfural			A	A	A	C
Gas Oil			A	A	A	-
Gasoline Aromatic			A	A	A	B
Gasoline 100 and 130 Octane.			A	A	A	B
Gasoline Hi-Test w/Mercaptan, H2S			A	A	A	B
Gelatin			A	A	A	A (at 150F)
Glaubers Salt (Aqueous) (Sodium Sulfate)			A	A	A	-

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	°C	%				
Glucose			A	A	A	A
Glue			A	A	A	-
Glue Sizing			A	A	A	-
Glycerine (Glycerol)		0-100	A	A	A	A (at 250F)
Glycols			A	A	A	C
Grape Juice			A	A	A	A
Grease			A	A	A	-
Green Sulfate Liquor			A	A	A	-
Helium			A	-	-	-
Heptane			A	A	A	B
Hexachloro Acetone			A	-	-	-
Hexane			A	A	A	B
Hexene (Butylethylene)			A	-	-	-
Hexone			A	A	A	-
Hexyl Alcohol (Hexanol)			A	-	-	-
Hops			A	-	-	-
Hydrazine			A	A	-	-
Hydrobromic Acid			A	C	B	A (at 250F)
Hydrochloric Acid (Hydrogen Chloride)	<50	Conc.	A	C	A	B
Hydrochloric Acid (Hydrogen Chloride)	<50	Dilute	A	C	A	A
Hydrochloric Acid (Hydrogen Chloride)	>50	Conc.	A	C	B	B
Hydrochloric Acid (Hydrogen Chloride)	>50	Dilute	A	C	B	A (at 167F)
Hydrocyanic Acid (Prussic)			A	C	-	A (at 70F)
Hydrofluoric Acid	Cold	<55	A	C	B	A
Hydrofluoric Acid, Aqueous	Any	All	A	-	-	B
Hydrofluoric Acid, Aqueous	Cold	>65	A	C	B	B
Hydrofluosilicic Acid	Any	0-20	-	-	-	-
Hydrogen			A	A	A	A
Hydrogen Fluoride (H F Acid) Anhydrous	Cold	<65	A	C	B	B
Hydrogen Fluoride (H F Acid) Anhydrous	Hot	All	A	C	B	B
Hydrogen Fluoride (H F Acid) Anhydrous	Cold	>65	A	C	B	B
Hydrogen Peroxide	Cold	>90	B	B	B	B
Hydrogen Sulfide (Dry)	Cold	>90	B	B	B	B
Hydrogen Sulfide (Dry)	Hot		B	B	B	B
Hydrogen Sulfide (Wet)	Cold		B	B	B	B
Hydrogen Sulfide (Wet)	Hot		B	B	B	B
Hypochlorous Acid			A	C	A	-
Ink			A	B	-	A
Insecticides (Aromatic)			A	B	A	-
Insecticides (Nonaromatic)			A	B	A	-
Iodine	<22	100	A	C	A	C
Iodoform			A	A	A	-
Isobutane			A	A	A	-
Isobutyl Alcohol			A	A	A	-
Isobutyl Methyl Ketone			A	A	A	-
Isobutylene			A	A	A	-
Isodecane			A	-	-	-
Iso-Octane			A	A	A	-
Isopentane			A	A	A	-
Isopropanol			A	A	A	C
Isopropyl Acetate		100	A	A	A	-

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			3120 3123/3125	3124/3126 3125SS 3125TC 3128	3125HC (H276)	3125MC (Mylar- polyester)
	°C	%				
Isopropyl Acetone			A	A	A	–
Isopropyl Alcohol		0-100	A	A	A	C
Isopropyl Chloride			A	–	–	–
Isopropyl Ether		100	A	A	A	–
Isopropylamine			A	A	A	–
JP-3			A	A	A	–
JP-4			A	A	A	C
JP-5			A	A	A	C
JP-6			A	A	A	–
JP-X			A	A	A	–
Kerosene		100	A	A	A	C
Lacquer (MEK Solvent)			A	A	A	–
Lactic Acid	Hot	<10	A	C	A	A (at 200F)
Lactic Acid	Any	All	A	–	–	A (at 150F)
Lard (Animal Fat)			A	A	A	A
Latex			A	A	A	–
Lavender Oil			A	A	A	–
Lead, Molten			B	–	–	–
Lead Acetate (Liquid)			A	A	A	A (at 200F)
Lead Nitrate	<22		A	B	B	A (at 100F)
Lead Sulphamate			A	B	B	–
Lime Bleach			A	–	–	–
Lime Water (Calcium Hydroxide)			A	A	A	–
Lindol			A	A	A	–
Linseed Oil			A	A	A	–
Liquid Oxygen			B	B	B	B
Liquid Petroleum Gas (LPG)			A	A	A	–
Liquor, Lime			A	–	–	–
Liquor, Pulp Mill			A	A	A	–
Liquor, Steep			A	–	–	–
Liquor, Sulfate			A	–	–	–
Lithium Bromide Brine			A	A	A	–
Lithium Chloride (Aqueous)			A	A	A	A (30%, 200F)
Lye, Caustic			A	–	–	–
Lye, Salty			A	–	–	–
Magnesium Carbonate			A	–	–	A (at 70F)
Magnesium Chloride (Bischoffite)			A	A	A	A (at 200F)
Magnesium Hydroxide (Brucite)			A	A	A	C
Magnesium, Molten			C	C	C	C
Magnesium Nitrate			B	B	B	B
Magnesium Sulfate (Epsom Salt) (Aqueous)			A	B	B	A (at 100F)
Magnesium Sulfite (Aqueous)			A	–	–	–
Maleic Acid			A	A	A	C
Maleic Anhydride			A	A	A	–
Maleic Hydrazide			A	A	–	–
Manganese Chloride (Aqueous)			A	C	A	–
Manganese Sulfate (Aqueous)			A	A	A	–
Mannitol			A	–	–	–
Marsh Gas (Methane)			A	A	A	–
Marsh, Anti-biotic Fermentation, No solvent			A	A	–	–
Marsh, With Solvent			A	A	A	–

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	°C	%				
Mayonnaise			A	A	A	–
MEA (Monoethanolamine)			A	A	A	–
MEA- With Copper Sulfate			A	A	A	–
Melamine Resins			B	C	–	–
Mercaptan			A	–	–	–
Mercuric Chloride			A	B	B	A (at 70F)
Mercury			A	A	A	A (at 150F)
Mercury Salts			A	A	A	–
Mercury Vapor			A	A	A	–
Mesityl Oxide (Ketone)			A	A	–	–
Methane (Marsh Gas)			A	A	A	A
Methanol (Methyl Alcohol)			A	A	A	C
Methyl Acetate			A	B	A	C
Methyl Acrylate			A	A	–	–
Methyl Alcohol (Methanol)		0-100	A	A	A	C
Methylamine			A	A	–	–
Methyl Bromide (Bromomethane)			A	A	–	C
Methyl Butyl Ketone			A	A	–	–
Methyl Cellosolve			A	B	–	–
Methyl Chloride (Chloromethane) (Anhydrous)			A	A	–	C
Methyl Chlorosilanes			B	–	–	–
Methyl Cyclopentane			A	–	–	–
Methyl Dichloride			A	A	–	–
Methylene Chloride (Dichloromethane)			A	B	B	C
Methylene Dichloride			A	A	–	–
Methyl Ether			A	–	–	–
Methyl Ethyl Ketone (MEK)			A	A	A	A (at 167F)
Methyl Formate			A	–	–	–
Methyl Isobutyl Ketone		100	A	B	A	C
Methyl Isopropyl Ketone			A	A	–	–
Methyl Methacrylate			A	B	–	–
MIL F-25558 (RJ-1)			A	A	A	–
MIL L-7808			A	A	A	–
MIL H-5606 (HFA)			A	A	A	–
MIL H-5606 (J43)			A	A	A	–
MIL O-8515			A	A	A	–
MIL O-8200 (Hydr)			A	A	A	–
Milk			A	A	A	A
Milk of Lime			A	A	A	–
Mine Water	20		A	A	A	–
Mine Water Acid	<20		A	A	A	–
Mineral Spirits			A	A	A	–
Miscella 20% Soya Oil			A	A	A	–
Mixed Sulfuric and Nitric Acid	Any	All	C	C	C	C
Mobiltherm Heat Transfer Fluid		100	A	–	–	–
Molasses			A	A	A	A
Monochloro Acetic Acid		100	A	B	B	–
Monochlorobenzene		100	A	A	A	–
Monoethanolamine (MEA)			A	A	A	–
Monoethylene glycol ethyl ether			A	–	–	–
Monomethyl Amine			A	–	–	–

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	°C	%				
Monovinyl Acetate			A	–	–	–
MTBE			A	–	–	–
Muriatic Acid (See Hydrochloric acid)			A	C	A	–
Mustard			A	A	A	–
Naphtha			A	A	B	C
Naphtha, Crude			A	A	–	C
Naphthalene			A	A	A	C
Naphthenic Acid	<290	All	A	A	A	–
Natural Gas Liquid			A	A	A	–
Neatsfoot Oil			A	A	A	–
Nickel Acetate			A	–	–	–
Nickel Carbonyl (Ni(CO)4)	<60		A	–	–	–
Nickel Chloride	Any	All	A	–	–	C
Nickel Chloride	Hot	<30	A	B	B	C
Nickel Cobalt Sulfate, 5% H2SO4	95		A	C	–	–
Nickel Nitrate	<48		–	–	–	A
Nickel Salts			A	–	–	–
Nickel Sulfate			A	B	B	A (at 200F)
Nicotine Sulfate			A	A	–	–
Nitric Acid	<85	<10	A	A	A	A
Nitric Acid	<60	10-20	A	A	A	A
Nitric Acid	<38	>20	A	A	A	C
Nitric Acid (Fuming)	Hot		C	C	C	C
Nitrobenzene			A	B	C	C
Nitrobenzine			A	A	–	–
Nitrochloroform			A	A	–	–
Nitroethane			A	A	–	–
Nitrogen Gas			A	A	A	A
Nitromethane			A	A	A	–
Nitropropane			A	A	–	–
Oakite			A	–	–	–
Octyl Alcohol		100	A	–	–	–
Oil & Ammonia			A	A	A	–
Oil, Animal, Bone			A	A	A	–
Oil, Animal, Cod			A	A	A	–
Oil, Animal, Lard			A	A	A	–
Oil, Animal, Menhaden			A	A	A	–
Oil, Animal, Neatsfoot			A	A	A	–
Oil, Animal, Sperm			A	A	A	–
Oil, Animal, Whale			A	A	A	–
Oil, Bunker 'C'			A	A	A	–
Oil, Coal Tar			A	A	A	–
Oil, Creosote, Sweet			A	A	A	–
Oil, Crude, Sweet	Cold		A	A	A	–
Oil, Diesel, #2D			A	A	A	–
Oil, Diesel, #3D			A	A	A	–
Oil, Diesel, #4D			A	A	A	–
Oil, Diesel, #5D			A	A	A	–
Oil, Essential			A	A	A	–
Oil, Fed. Spec. #10			A	A	A	–
Oil, Fed. Spec. #20			A	A	A	–

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	°C	%				
Oil, Fed. Spec. #30			A	A	A	-
Oil, Fed. Spec. #9170			A	A	A	-
Oil, Fed. Spec. #9250			A	A	A	-
Oil, Fed. Spec. #9370			A	A	A	-
Oil, Fed. Spec. #9500			A	A	A	-
Oil, Fed. Spec. SAE 20			A	A	A	-
Oil, Fed. Spec. SAE 30			A	A	A	-
Oil, Fed. Spec. SAE 40			A	A	A	-
Oil, Fed. Spec. SAE 50			A	A	A	-
Oil, Fed. Spec. SAE 60			A	A	A	-
Oil, Fed. Spec. SAE 70			A	A	A	-
Oil, Fed. Spec. SAE 90			A	A	A	-
Oil, Fed. Spec. SAE 140			A	A	A	-
Oil, Fed. Spec. SAE 250			A	A	A	-
Oil, Fuel #1			A	A	A	-
Oil, Fuel #2			A	A	A	-
Oil, Fuel #3			A	A	A	-
Oil, Fuel #5A			A	A	A	-
Oil, Fuel #5B			A	A	A	-
Oil, Fuel #6			A	A	A	-
Oil, Insulating			A	A	A	-
Oil, Kerosene			A	A	A	-
Oil, Lean			A	A	A	-
Oil, Linseed (Raw)			A	A	A	-
Oil, Lubricating #8			A	A	A	-
Oil, Lubricating Diesel #9110			A	A	A	-
Oil, Mineral Lard Cutting, Fed Spec. #1			A	A	A	-
Oil, Mineral Lard Cutting, Fed Spec. #2			A	A	A	-
Oil, Mineral SAE 10			A	A	A	B
Oil, Navy Spec., Navyll			A	A	A	-
Oil, Quenching			A	A	A	-
Oil, Rich			A	A	A	-
Oil, Turbine Lube			A	A	A	-
Oil, Vegetable, Castor			A	A	A	-
Oil, Vegetable, China Wood			A	A	A	-
Oil, Vegetable, Coconut			A	A	A	-
Oil, Vegetable, Corn			A	A	A	-
Oil, Vegetable, Cottonseed			A	A	A	-
Oil, Vegetable, Linseed (Raw)			A	A	A	-
Oil, Vegetable, Olive			A	A	A	-
Oil, Vegetable, Palm			A	A	A	-
Oil, Vegetable, Peanut			A	A	A	-
Oil, Vegetable, Rape Seed			A	A	A	-
Oil, Vegetable, Rosin			A	A	A	-
Oil, Vegetable, Sesame			A	A	A	-
Oil, Vegetable, Soya Bean			A	A	A	-
Olefin, Crude			A	A	A	-
Oleic Acid			A	A	A	C
Oleums			C	C	C	C
Ortho-Phosphoric Acid	<80	All	A	-	-	-
Orthodichloro Benzene			A	A	-	-

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	°C	%				
OS 45 Type IV			B	B	B	–
Oxalic Acid (Ethanedioic Acid)	Cold		A	A	A	A (at 200F)
Oxalic Acid (Ethanedioic Acid)	Hot		A	A	A	–
Oxygen, Gas (<2000 psi)	<400	100	A	A	–	B
Oxygen, Liquid			A	A	–	A
Palmitic Acid (Hexadecanoic Acid)			A	A	A	A (at 150F)
Palmitic Acid, Stearic			A	B	A	–
Paracymene			A	A	A	–
Paradichlorobenzene		100	A	–	–	–
Paraffin, Liquid			A	A	A	–
Paraldehyde		100	A	–	–	–
Parkerizing Solution			A	–	–	–
Pectin, Liquor			A	A	A	–
Penicillin, Liquid			A	A	A	–
Pentachlorophenol			A	A	A	–
Pentane			A	A	A	–
Pentasol			A	–	–	–
Perchloroethylene			A	A	A	C
Peroxide of Hydrogen	Cold	>90	C	C	C	C
Petrolatum			A	A	A	–
Petroleum Ether			A	A	A	A (at 150F)
Phenol (Carbolic Acid)	205	All	A	A	A	C
Phenol, Formaldehyde Mix			A	A	B	–
Phenyl Acetic Acid			A	A	A	–
Phidolene			A	–	–	–
Phosgene Gas			A	C	A	–
Phosphoric Acid	50	>40	A	B	A	A (at 200F)
Phosphoric Acid	Cold	100	A	A	A	–
Phosphoric Acid	<80	<45	A	B	A	A (at 200F)
Phosphoric Acid	Cold	<45	A	B	A	A (at 200F)
Phosphorus Trichloride (Dry)		100	A	A	A	A (at 200F)
Photographic Developers			A	A	B	A
Phthalic Anhydride (Anhydrous)			A	A	A	–
Phthalic Esters			A	A	–	–
Picric Acid, Molten			A	B	B	C
Picric Acid, Water Solution	<20		A	B	B	C
Plasticizer			A	A	A	–
Plating Solutions, Chrome	<22		A	C	C	–
Plating Solutions, Others			A	C	B	–
Poly Glycols			A	A	A	–
Polyphenyl Ether			–	–	–	–
Poly Vinyl Acetate			A	–	–	–
Potash (Plant Liquor)			A	B	B	–
Potash Alum (Aqueous)			A	A	–	–
Potash Sulfide			A	A	–	–
Potassium Bicarbonate			A	B	B	A (at 200F)
Potassium Bichromate (Aqueous)			B	B	–	B
Potassium Bromide			A	B	B	C
Potassium Carbonate (Aqueous)			A	A	B	C
Potassium Chlorate			A	B	B	A (at 70F)
Potassium Chloride (Aqueous) (Sylvite)			A	A	A	A (at 150F)

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	°C	%				
Potassium Cyanides (Aqueous)			A	A	B	–
Potassium Dichromate			B	B	B	A (at 150F)
Potassium Hydroxide (Aqueous)		>50	A	B	B	C
Potassium Hydroxide (Aqueous)		<50	A	B	A	C
Potassium, Molten			C	C	C	C
Potassium Nitrate (Aqueous)(Saltpeter)			B	B	B	B
Potassium Perfluoro Acetate			A	A	A	–
Potassium Permanganate			A	A	A	A (20%, 200F)
Potassium Phosphate (Di, Tri)			A	A	A	–
Potassium Sulfate (Aqueous)(Arcanite)			A	A	B	A (at 70F)
Propane (Dimethylmethane)			A	A	A	C
Propiolactone, beta	20		A	A	–	–
Propionaldehyde			A	A	–	–
Propylene (Propane)			A	A	A	C
Propylene Glycol			A	A	A	B
Propylene Glycol & Water			A	–	–	–
Propylene Oxide			A	A	–	–
Pulp Stock			A	–	–	–
PVC, Liquid	230-260		A	–	–	–
Pyridine			A	A	A	C
Pyrogalllic Acid			A	–	–	–
Pyroligneous Acid			A	A	–	–
Quick Clean (Tetrachloroethylene & Carbon Dioxide)			A	B	B	–
Raffinate			A	A	–	–
Rosin	38		A	A	A	–
Sal Ammoniac (Ammonium Chloride)			A	A	A	–
Salt Cake			A	A	A	–
Salt Cake (Aqueous)			A	A	A	–
Salt Water			A	B	A	A
Sea Water			A	A	A	A
Selenic Acid			A	–	–	A
Sewage			A	B	A	A
Shellac			A	A	A	–
Silicone Oils and Greases			A	A	–	–
Silver Nitrate		10	A	A	A	A
Skydol 500			A	A	A	–
Skydol 7000			A	A	A	–
Slop, Brewery			A	–	–	–
Slop, Distillers			A	–	–	–
Soap, Liquors			A	A	–	–
Soap, Solutions			A	A	A	A
Soda Ash (Sodium Carbonate)	Cold		B	B	B	–
Sodium Acetate			A	A	C	A (at 200F)
Sodium Aluminate			A	A	B	–
Sodium Bicarbonate (Aqueous)			A	A	A	A (at 100F)
Sodium Bisulfate			A	A	B	A (at 200F)
Sodium Bisulfite			A	A	A	A (at 200F)
Sodium Borate (Borax)			A	A	A	A (at 70F)
Sodium Carbonate (Aqueous)			B	B	B	B
Sodium Chlorate (Sat'd)			B	B	B	B
Sodium Chloride Sol. (Common Salt)		100	A	C	A	A (at 250F)

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	°C	%				
Sodium Chlorite	<22	0-4	A	–	–	–
Sodium Cyanamide			A	A	–	–
Sodium Cyanide (Aqueous)			B	B	B	B
Sodium Hydrosulfite			A	A	A	–
Sodium Hydroxide	<120	All	A	–	–	B
Sodium Hydroxide (Aqueous)	<65	<50	A	B	B	B
Sodium Hypochlorite	<22	20	A	B	A	A (at 70F)
Sodium Metaphosphate			B	B	B	–
Sodium Metasilicate			A	A	A	–
Sodium, Molten	<450		A	–	–	–
Sodium Nitrate (Aqueous)(Soda Niter)			A	A	B	A (at 200F)
Sodium Perborate			A	B	B	–
Sodium Peroxide Sol.			A	A	B	A
Sodium Phosphate, Meta (Aqueous)			A	A	A	–
Sodium Phosphate, Mono (Aqueous)			A	A	A	–
Sodium Phosphate, Dibasic (Aqueous)			A	A	A	–
Sodium Phosphate, Tribasic (Aqueous)			A	A	A	–
Sodium Plumbite (Aqueous)			A	A	–	–
Sodium Silicate (Aqueous)(Water Glass)			A	A	A	–
Sodium Sulfate (Aqueous)(Glauber's Salt)			A	A	A	A (at 200F)
Sodium Sulfide			A	A	A	B
Sodium Sulfite (Aqueous)			C	C	C	C
Sodium Tetraborate			A	A	A	–
Sodium Thiosulfate			A	A	A	–
Solvasol 1,2, &3			A	A	A	–
Solvasol 73, 74			A	A	A	–
Sorbitol			A	A	–	–
Stannic Chloride			A	C	B	A (at 150F)
Starch			A	A	A	A
Steam	>120		A	A	A	A
Stearic Acid (Octodecanoic Acid)			A	A	–	A
Stearic and Oleic Acid			A	A	–	–
Stoddard Solvent			A	A	A	B
Strontium Nitrate (Aqueous)			A	–	–	–
Styrene (Monomer) (Vinylbenzene)			A	A	A	–
Succinic Acid			A	–	–	A (at 200F)
Sugar (Aqueous)			A	A	A	–
Sulfate Liquors			A	A	A	–
Sulfate of Lime			A	–	–	–
Sulfide of Hydrogen	<700		A	A	A	–
Sulfide of Sodium	Hot		A	C	B	–
Sulfide of Sodium	Cold		A	C	B	–
Sulfite Pulp			A	–	–	–
Sulfonic Acid	60	Dilute	–	–	–	–
Sulfur Chloride (Aqueous)	Cold		A	C	–	C
Sulfur Dioxide (Dry)			B	B	B	B
Sulfur Dioxide (Wet)			A	C	A	B
Sulfur Dioxide & Water			A	C	A	B
Sulfur in Water			B	–	–	–
Sulfur, Molten			B	B	C	B
Sulfur Monochloride		100	A	–	–	–

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Medium	Temperature + Concentration		Garlock Graph-Lock® Style Numbers			
			3120 3123/3125	3124/3126 3125SS 3125TC 3128	3125HC (H276)	3125MC (Mylar- polyester)
	°C	%				
Sulfur Trioxide (Dry)			B	B	B	C
Sulfur Trioxide (Wet)			B	B	–	C
Sulfuric Acid	Cold	<70	A	C	A	C
Sulfuric Acid	<120	<60	A	C	B	C
Sulfuric Acid	<65	<95	A	C	A	B
Sulfuric Acid		>95	C	C	C	C
Sulfuric Acid	<75	<10	A	C	A	A
Sulfuric Acid Fuming (Oleum)	Cold	20-25	C	C	C	C
Sulfurous Acid, Wet	Any	All	A	C	A	A
Sulphonated Fatty Alcohol			A	A	A	–
Sulphonated Vegetable Oils			A	A	A	–
Sulphuric Chlorohydrin			A	C	–	–
Syrup, (Sucrose Soln.)			A	A	A	–
Tall Oil	95		A	B	A	–
Tallow			A	A	A	B
Tannic Acid	<65		A	A	A	A (at 150F)
Tanning Liquors			A	A	A	A
Tar & Ammonia w/Water			A	A	A	–
Tar, Bituminous			A	A	A	–
Tar, Pine			A	A	A	–
Tartaric Acid, Aqueous	Hot		A	A	A	A (at 150F)
TBA (Tertiary Butyl Alcohol)			A	–	–	–
Terephthalic Acid			A	A	–	–
Tetrachloroethane		100	A	A	A	C
Tetrachloroethylene			A	A	–	A (at 200F)
Tetra Ethyl Lead			A	A	–	–
Tetrahydrofuran			B	B	B	C
Tetraphenyl			A	A	–	–
Therminol #1, 2, & 3			A	A	A	–
Titanium Tetrachloride			A	A	–	C
Toluene (Toluol) (Methylbenzene)			A	A	A	A (at 167F)
Tomato Pulp			A	A	A	–
Toxaphene			A	–	A	–
Trichlorobenzene			A	A	A	–
Trichloroethane (Dry)			A	A	A	–
Trichloroethane (wet)			A	–	A	–
Trichloroethylene (Dry)			A	A	A	A (at 167F)
Trichloroethylene (Wet)			A	A	A	A (at 167F)
Trichloronitromethane			A	A	–	–
Tricresyl Phosphate			A	A	A	A (at 167F)
Triethylamine			A	A	A	–
Triethylene			A	–	–	–
Triethylene Glycol Ethyl Ether			A	–	–	–
Trifluorovinylchloride			A	A	A	–
Trimethyl Amine			A	–	–	–
Trisodium Phosphate			A	A	A	A (at 70F)
Turpentine			A	A	A	C
UCON Heat Transfer Fluid (All Types)		100	A	–	–	–
Urea (Anhydrous) (Carbamide)	All	100	A	A	B	A (at 70F)
Urea (Wet) (Carbamide)	All	All	A	A	B	A (at 70F)
Urea & Phenolic Resins			A	–	–	–

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	°C	%				
Urine			A	A	A	A
Varnish, Aromatic			A	A	A	-
Varnish, Non-aromatic			A	A	A	-
Vegetable Juice			A	A	A	-
Vetrocoke Solution (Wet)			A	A	A	-
Vinegar			A	A	A	A (at 150F)
Vinyl Chloride (Chloroethene)			A	A	A	-
Vinylidene Chloride			A	A	A	-
Vinyl Pyridine			A	A	A	-
Vitriole, White			B	B	B	-
Water, Boiler Feed			A	A	A	A
Water, Borated	Any		A	-	-	-
Water, Brackish			A	A	A	A
Water, Clean untreated			A	A	A	A
Water, Cooling Tower			A	A	A	A
Water, Condensate			A	A	A	A
Water, Distilled			A	A	A	A
Waterflood Service			A	A	A	-
Water, Fresh			A	A	A	A
Water, Heavy			A	A	A	-
Water, Hot	<135		A	A	A	A
Water, Mine			A	A	A	A
Water, River			A	A	A	A
Water, Salt & Sea, Solution			A	B	A	A
Water, Soapy	<100		A	A	A	A
Water w/Sol. Oil			A	A	A	-
Whiskey			A	A	A	B
White Liquor			A	A	A	-
White Water, Paper Mill			A	A	A	-
Wine			A	A	A	B
Wood Pulp (Stock)			A	-	-	-
Wood Vinegar			A	A	-	-
Wort (Beer Wort)			A	A	A	-
Xylene (Dimethylbenzene)			A	A	A	B
Yeast			A	-	-	A
Zeolite Treated Water			A	A	A	-
Zinc Ammonium Chloride			A	-	-	-
Zinc Chloride (Wet)			A	B	B	A (at 200F)
Zinc Chloride (Dry)			A	B	B	A (at 200F)
Zinc Cyanide			A	A	A	-
Zinc Nitrate			A	A	A	A (at 150F)
Zinc Phosphate			A	-	-	-
Zinc Sulfate			A	A	A	A (at 250F)

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