

Rubber, PTFE and Composite Hose Chemical Resistance Table

Rating Scale: 1 = Excellent 2 = Good Resistance X = Not Recommended - = No Data [] - Cover stock rating only; Rating for tube stock "X"		Hoses							Couplings				
		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name													
A													
	Absorption Oil	2	1	2	1	2	1	1	-	-	-	-	1
	Acetaldehyde	X	X	X	-	X	1	2	1	1	1	1	1
	Acetamide	1	2	-	-	-	1	-	-	-	-	-	-
	Acetic Acid, 5-20%	2	X	2	1	2	1	1	X	2	2	2	X
	Acetic Acid, 25%	2	X	2	1	2	1	X	X	2	2	2	X
	Acetic Acid, 30%	2	X	-	1	-	1	2	X	2	1	2	X
	Acetic Acid, 50%	2	X	2	1	-	1	2	X	2	2	2	X
	Acetic Acid, 50% Boiling	X	X	-	-	-	1	X	X	X	2	-	-
	Acetic Acid, 80%	X	X	-	-	-	1	X	X	2	2	2	X
	Acetic Acid, 80% Boiling	X	X	-	-	-	1	X	X	X	2	X	X
	Acetic Acid, 100%	X	X	-	-	-	1	X	X	X	2	2	X
	Acetic Acid, 100% Boiling	X	X	-	-	-	1	X	X	X	2	-	X
	Acetic Acid, 100% (Hot) Vapors	2	2	-	-	-	-	X	X	X	2	2	X
	Acetic Acid, Air Free	-	-	-	-	-	1	-	X	X	X	-	X
	Acetic Acid, Anhydride	X	X	X	1	2	1	X	X	2	2	2	X
	Acetic Acid, Areated	-	-	-	-	-	1	-	X	X	X	-	X
	Acetic Acid, Crude	X	X	-	-	-	1	1	X	2	1	2	X
	Acetic Acid, Glacial	X	X	X	1	X	1	X	X	2	2	2	-
	Acetone (Dimethylketone)	X	X	X	1	X	1	1	1	1	1	1	1
	Acetonitrile (Methyl Cyanide)	2	X	2	1	2	-	-	-	-	-	-	-
	Acetylene	2	2	1	1	-	1	1	1	1	1	1	2
	Acrylonitrile (Vinyl Cyanide)	X	X	X	1	X	-	-	1	1	1	2	1
	Aero Lubriplate	1	1	-	-	-	-	-	1	1	1	1	-
	Aero-Safe 2300	X	X	-	-	-	-	-	1	1	1	1	1
	Aeroshell Type 1A, 1AC, 4	2	1	-	-	-	-	-	-	-	-	-	-
	Aeroshell 7AGrease	2	1	-	-	-	-	-	1	1	1	1	-
	Aeroshell 17 Grease	2	1	-	-	-	-	-	1	1	1	1	-
	Aeroshell 750	X	2	-	-	-	-	-	1	1	1	1	-
	Air, Ambient	1	1	1	1	1	1	1	1	1	1	1	1
	Air, 66°C	1	1	1	1	1	1	1	1	1	1	1	1
	Air, 82°C	2	2	2	1	2	1	1	1	1	1	1	1
	Air, 93°C	X	X	X	1	X	1	2	1	1	1	1	1
	Aircraft Hyd. Oil AA	-	1	-	-	-	-	-	1	1	1	1	1
	Alcohol	1	1	-	-	-	1	-	1	1	1	1	1
	Alcohol, Amyl	2	2	-	-	-	1	1	-	2	1	2	-
	Alcohol, Benzyl	X	X	-	1	2	1	-	1	1	1	-	-

Rating Scale: 1 = Excellent 2 = Good Resistance X = Not Recommended - = No Data [] - Cover stock rating only; Rating for tube stock "X" Contact your Gates Product Application Engineer for chemicals not listed	Hoses							Couplings				
	Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name												
Alcohol, Butyl	2	X	2	-	2	1	1	1	1	1	1	1
Alcohol, Denatured	1	1	-	-	1	1	1	1	1	1	1	1
Alcohol, Diacetone	-	X	-	-	2	1	-	1	1	1	1	1
Alcohol, Ethyl (Ethanol)	1	1	1	1	1	1	1	1	1	1	1	2
Alcohol, Furfural	2	X	X	1	2	1	-	2	1	1	1	1
Alcohol, Hexyl (Hexanol)	2	1	-	-	X	1	-	1	1	1	1	2
Alcohol, Isobutyl	2	2	-	-	1	1	1	1	1	1	1	2
Alcohol, Isopropyl (Isopropanol)	2	2	2	-	2	1	1	1	1	1	1	2
Alcohol, Methyl (100%) (Methanol)	1	1	1	1	1	1	1	1	1	1	1	2
Alcohol, Methyl (6%)	1	1	1	-	1	1	1	1	1	1	1	2
Alcohol, Octyl	2	2	-	-	-	1	1	1	1	1	1	-
Alcohol, Propyl	1	1	-	-	-	1	X	2	1	1	1	1
Alkazene	X	X	X	-	X	-	-	1	1	-	-	-
Aluminum Chloride	1	1	1	1	1	1	X	X	2	2	X	X
Aluminum Fluoride	1	1	1	1	1	1	X	X	2	2	2	X
Absorption Oil	2	1	2	1	2	1	1	-	-	-	-	1
Acetaldehyde	X	X	X	-	X	1	2	1	1	1	1	1
Acetamide	1	2	-	-	-	1	-	-	-	-	-	-
Acetic Acid, 5-20%	2	X	2	1	2	1	1	X	2	2	2	X
Acetic Acid, 25%	2	X	2	1	2	1	X	X	2	2	2	X
Acetic Acid, 30%	2	X	-	1	-	1	2	X	2	1	2	X
Acetic Acid, 50%	2	X	2	1	-	1	2	X	2	2	2	X
Acetic Acid, 50% Boiling	X	X	-	-	-	1	X	X	X	2	-	-
Acetic Acid, 80%	X	X	-	-	-	1	X	X	2	2	2	X
Acetic Acid, 80% Boiling	X	X	-	-	-	1	X	X	X	2	X	X
Acetic Acid, 100%	X	X	-	-	-	1	X	X	X	2	2	X
Acetic Acid, 100% Boiling	X	X	-	-	-	1	X	X	X	2	-	X
Acetic Acid, 100% (Hot) Vapors	2	2	-	-	-	-	X	X	X	2	2	X
Acetic Acid, Air Free	-	-	-	-	-	1	-	X	X	X	-	X
Acetic Acid, Anhydride	X	X	X	1	2	1	X	X	2	2	2	X
Acetic Acid, Areated	-	-	-	-	-	1	-	X	X	X	-	X
Acetic Acid, Crude	X	X	-	-	-	1	1	X	2	1	2	X
Acetic Acid, Glacial	X	X	X	1	X	1	X	X	2	2	2	-
Acetone (Dimethylketone)	X	X	X	1	X	1	1	1	1	1	1	1
Acetonitrile (Methyl Cyanide)	2	X	2	1	2	-	-	-	-	-	-	-
Acetylene	2	2	1	1	-	1	1	1	1	1	1	2
Acrylonitrile (Vinyl Cyanide)	X	X	X	1	X	-	-	1	1	1	2	1
Aero Lubriplate	1	1	-	-	-	-	-	1	1	1	1	-
Aero-Safe 2300	X	X	-	-	-	-	-	1	1	1	1	1
Aeroshell Type 1A, 1AC, 4	2	1	-	-	-	-	-	-	-	-	-	-
Aeroshell 7AGrease	2	1	-	-	-	-	-	1	1	1	1	-
Aeroshell 17 Grease	2	1	-	-	-	-	-	1	1	1	1	-

Rating Scale: 1 = Excellent 2 = Good Resistance X = Not Recommended - = No Data [] - Cover stock rating only; Rating for tube stock "X"		Hoses							Couplings				
		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Contact your Gates Product Application Engineer for chemicals not listed													
Chemical Name													
	Aeroshell 750	X	2	-	-	-	-	-	1	1	1	1	-
	Air, Ambient	1	1	1	1	1	1	1	1	1	1	1	1
	Air, 66°C	1	1	1	1	1	1	1	1	1	1	1	1
	Air, 82°C	2	2	2	1	2	1	1	1	1	1	1	1
	Air, 93°C	X	X	X	1	X	1	2	1	1	1	1	1
	Aircraft Hyd. Oil AA	-	1	-	-	-	-	-	1	1	1	1	1
	Alcohol	1	1	-	-	-	1	-	1	1	1	1	1
	Alcohol, Amyl	2	2	-	-	-	1	1	-	2	1	2	-
	Alcohol, Benzyl	X	X	-	1	2	1	-	1	1	1	-	-
	Alcohol, Butyl	2	X	2	-	2	1	1	1	1	1	1	1
	Alcohol, Denatured	1	1	-	-	1	1	1	1	1	1	1	1
	Alcohol, Diacetone	-	X	-	-	2	1	-	1	1	1	1	1
	Alcohol, Ethyl (Ethanol)	1	1	1	1	1	1	1	1	1	1	1	2
	Alcohol, Furfural	2	X	X	1	2	1	-	2	1	1	1	1
	Alcohol, Hexyl (Hexanol)	2	1	-	-	X	1	-	1	1	1	1	2
	Alcohol, Isobutyl	2	2	-	-	1	1	1	1	1	1	1	2
	Alcohol, Isopropyl (Isopropanol)	2	2	2	-	2	1	1	1	1	1	1	2
	Alcohol, Methyl (100%) (Methanol)	1	1	1	1	1	1	1	1	1	1	1	2
	Alcohol, Methyl (6%)	1	1	1	-	1	1	1	1	1	1	1	2
	Alcohol, Octyl	2	2	-	-	-	1	1	1	1	1	1	-
	Alcohol, Propyl	1	1	-	-	-	1	X	2	1	1	1	1
	Alkazene	X	X	X	-	X	-	-	1	1	-	-	-
	Aluminum Chloride	1	1	1	1	1	1	X	X	2	2	X	X
	Aluminum Fluoride	1	1	1	1	1	1	X	X	2	2	2	X
	Aluminum Hydroxide	1	1	1	1	1	1	1	-	1	1	-	1
	Aluminum Hydroxide, Saturated	1	1	-	-	-	1	1	-	1	1	-	-
	Aluminum Nitrate	1	1	1	1	1	1	-	X	1	1	2	-
	Aluminum Sulfate	1	1	1	1	1	1	1	X	X	2	X	X
	Alums (Ammonium or Potassium)	1	1	1	1	1	1	-	X	2	2	X	X
	Ammonia, Aqueous	1	2	1	-	1	1	1	-	1	1	-	X
	Ammonium Carbonate	2	X	-	-	-	-	-	1	1	1	-	-
	Ammonium Chloride, 1%	X	2	1	1	1	1	1	X	2	2	X	X
	Ammonium Chloride, 10% Boiling	X	X	-	-	-	1	X	X	2	2	X	X
	Ammonium Chloride, 28% Boiling	X	X	-	-	-	1	X	X	2	2	X	X
	Ammonium Chloride, 50% Boiling	X	X	-	-	-	1	X	X	2	2	X	X
	Ammonium Hydroxide	2	2	2	1	1	1	1	2	1	1	-	X
	Ammonium Hydroxide, 3 Molar	1	X	-	-	-	1	-	X	2	2	X	X
	Ammonium Hydroxide, Concentrated	1	X	-	1	-	1	1	X	2	2	X	X
	Ammonium Metaphosphate	2	2	2	-	2	1	-	1	1	1	X	-
	Ammonium Nitrate, Fertilizer	1	2	1	1	1	1	X	1	1	1	2	X
	Ammonium Nitrite	1	1	-	-	-	-	1	2	1	1	X	-
	Ammonium Persulfate	X	X	X	1	-	-	X	X	2	2	X	X

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	Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name												
Ammonium Persulfate, 5%	1	X	-	-	-	-	X	X	2	2	X	X
Ammonium Persulfate, 10%	1	X	-	-	-	-	X	X	2	2	X	X
Ammonium Phosphate (Mono, Di, Tri, Basic)	1	1	1	1	1	1	2	X	2	2	X	-
Ammonium Sulfate	1	2	1	1	1	1	X	X	X	2	X	X
Ammonium Thiocyanate	1	1	-	1	1	1	-	1	1	1	-	-
Amyl Acetate	X	X	X	2	X	1	1	X	1	1	X	2
Amyl Alcohol	2	2	2	1	-	1	1	1	1	1	1	1
Amyl Borate	2	2	2	-	-	-	-	-	-	-	-	-
Amyl Chloride	X	-	X	2	X	1	2	-	1	1	-	-
Amyl Chloronaphthalene	X	X	X	-	X	1	-	-	1	1	-	-
Amyl Naphthalene	X	X	X	-	X	1	-	-	1	1	-	-
Amyl Phenol	-	-	-	-	-	1	-	-	1	1	-	-
AN-0-3 Grade M	1	1	-	-	-	-	-	-	-	-	-	-
AN-0-6	1	1	-	-	-	-	-	-	-	-	-	-
AN-0-366	1	1	-	-	-	-	-	-	-	-	-	-
Anderol, L-774 (Diester)	X	2	-	-	-	1	X	-	-	-	-	-
Anderol, L-826 (Diester)	X	2	-	-	-	1	X	-	-	-	-	-
Anderol, L-829 (Diester)	X	2	-	-	-	1	X	-	-	-	-	-
ANG-25 (Glyceral Ester)	2	2	-	-	-	1	2	-	-	-	-	-
ANG-25 (Diester Base, TG749)	X	2	-	-	-	1	X	1	1	1	1	-
Aniline	X	X	X	2	X	1	2	2	1	1	X	X
Aniline Dyes	X	X	-	2	-	1	X	2	1	1	2	X
Aniline Hydrochloride	X	X	-	2	-	1	-	X	1	1	-	-
Animal Gelatin	1	1	-	1	-	1	-	-	1	1	-	-
Animal Fats	2	1	-	1	-	1	1	1	1	1	1	X
Animal Oil (Lard Oil)	2	1	-	1	-	1	-	1	1	1	1	-
Antifreeze, Alcohol Base	2	2	2	2	2	1	-	1	1	1	1	-
Antifreeze, Glycol Base	2	1	1	1	1	1	1	1	1	1	1	1
Antimony Chloride, 50%	-	1	-	-	-	1	X	X	X	X	-	-
AN-VV-0-366B Hydraulic Fluid	1	-	-	-	-	-	2	-	-	-	-	-
Aqua Regia (Concentrated)	X	X	X	2	X	1	X	X	X	X	X	-
Arco A.T.F. Dexron	-	1	-	-	-	-	-	-	-	-	-	-
Arco C2, 100	-	1	-	-	-	-	-	-	-	-	-	-
Aromatic Fuel 30%, Mil.	-	-	-	-	-	1	-	-	-	-	-	-
Aromatic Fuel 50%	X	2	-	-	-	1	-	-	-	-	-	-
Aromatic Hydrocarbons	X	X	-	-	X	1	-	2	1	2	2	2
Arsenic Acid	-	-	-	1	-	1	-	2	-	1	2	-
Askarel, Transformer Oil	X	X	X	-	X	1	-	1	1	1	-	1
Asphalt, Under 82°C	2	2	2	X	X	1	-	1	1	1	-	2
Asphalt, Cut Back	X	2	2	-	X	1	1	1	1	1	2	2
Asphalt, Topping	1	X	-	-	-	1	-	1	1	1	-	-
ASTM Oil No. 1	1	1	1	1	1	1	1	1	1	1	1	1

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Chemical Name													
	ASTM Oil No. 2	2	2	1	-	2	1	1	1	1	1	1	1
	ASTM Oil No. 3	X	1	X	X	X	1	1	1	1	1	1	1
	ASTM Oil No. 4	X	2	-	-	-	1	-	1	1	1	1	-
	ASTM Reference Fuel A	[2]	1	[1]	1	1	1	1	1	1	1	1	1
	ASTM Reference Fuel B	[2]	1	[2]	2	X	1	-	1	1	1	1	1
	ASTM Reference Fuel C	X	2	X	2	X	1	-	1	1	1	-	1
	ATL-857	X	2	-	-	-	-	-	-	-	-	-	-
	Atlantic Dominion F	2	1	-	-	-	-	-	-	-	-	-	-
	Aurex 903R (Mobil)	2	1	-	-	-	-	-	-	-	-	-	-
	Automatic Brake Fluid	2	X	-	-	-	1	-	1	1	1	1	-
	Automatic Transmission Fluid - ATF	2	1	-	1	-	1	-	1	1	1	1	-
	Aviation Gasoline, Mil.	-	2	-	-	-	-	-	1	1	1	1	-
B													
	Baltic Types 100, 150, 200, 300, 500	-	1	-	-	-	1	-	-	-	-	-	-
	Banvel, Concentrated (Ag Spray)	-	-	-	-	-	1	1	-	-	1	-	-
	Bardol B	X	X	X	-	X	1	-	1	1	1	-	-
	Barium Carbonate	1	1	1	1	1	1	1	2	1	1	X	1
	Barium Chloride	X	1	1	1	1	1	1	X	2	2	X	2
	Barium Chloride, 5%	X	1	-	-	-	1	X	2	1	1	X	-
	Barium Chloride, Aqueous Solution (Hot)	X	1	-	-	-	1	X	2	2	2	X	-
	Barium Hydroxide	1	1	1	1	1	1	1	X	1	1	X	X
	Barium Sulfate	1	1	-	1	2	1	1	2	1	1	2	2
	Barium Sulfate, Aqueous Solution (Hot)	X	-	-	-	-	1	X	2	1	1	2	-
	Barium Sulfide	2	1	1	1	1	1	2	X	1	1	X	X
	Bayol D	-	1	-	-	-	-	-	-	-	-	-	-
	Bayol 35	-	1	-	-	-	-	-	-	-	-	-	-
	Beet Sugar Liquors	X	1	1	1	1	1	-	2	2	2	2	X
	Bellows 80-20 Hydraulic Oil	-	1	-	-	-	1	-	-	-	-	-	-
	Benzaldehyde	X	X	X	2	X	1	1	1	1	1	1	1
	Benzene, Benzol	X	X	X	X	X	1	1	1	1	1	1	1
	Benzene Sulfonic Acid	X	-	-	-	-	1	-	X	-	2	X	-
	Benzine, Petroleum Ether	X	2	X	1	-	1	-	1	1	1	1	1
	Benzoic Acid 21°C	X	X	X	1	-	1	-	1	1	1	1	1
	Benzol	X	X	X	X	-	1	1	1	1	1	1	1
	Benzyl Alcohol	X	X	-	1	-	1	X	1	1	1	1	-
	Benzyl Benzoate	-	-	-	-	-	1	-	1	1	1	-	-
	Benzyl Chloride	X	X	X	X	-	1	2	1	-	-	-	-
	Bismuth Carbonate	X	-	-	-	-	1	-	1	1	1	-	-
	Black Point 77	-	1	-	-	-	-	-	-	-	-	-	-
	Black Sulfate Liquor	2	2	2	2	2	1	1	1	1	1	-	1
	Blast Furnace Gas	X	X	X	-	X	1	-	1	1	1	2	1
	Borax, Sodium Borate	X	2	2	1	1	1	X	2	1	1	X	2

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Chemical Name													
	Bordeaux Mixture	2	2	2	-	-	1	1	X	-	1	1	X
	Boric Acid	1	1	1	-	1	1	X	X	2	2	1	X
	Boron Fuels, HEF	X	X	-	-	-	-	-	-	-	-	-	-
	Brake Fluid, Petroleum Base	2	1	2	1	X	1	-	1	1	1	-	1
	Brake Fluid, Synthetic Base	X	X	X	1	X	1	-	1	1	1	1	1
	Bray GG - 130	X	2	-	-	-	-	-	-	-	-	-	-
	Brayco 719-r (VV-H-910)	2	X	-	-	-	-	-	-	-	-	-	-
	Brayco 885 (MIL-L-6085A)	X	2	-	-	-	-	-	-	-	-	-	-
	Brayco 910	2	2	-	-	-	-	-	-	-	-	-	-
	Brine	1	1	1	1	-	1	1	2	1	1	-	2
	Brom-113	X	2	-	-	-	-	-	-	-	-	-	-
	Brom-114	2	2	-	-	-	-	-	-	-	-	-	-
	Bromine, Dry	X	X	X	-	-	X	-	X	X	X	-	X
	Bunker Oil	X	2	2	-	X	1	1	1	1	1	1	1
	Butadiene	X	2	-	-	-	1	1	-	1	1	-	1
	Butane	X	X	X	-	X	1	X	1	1	1	-	1
	Butter Oil	2	-	-	-	-	1	-	1	1	1	1	1
	Butyric Acid	X	-	-	1	-	1	X	X	1	1	-	2
	Butyl Acetate	X	X	X	2	X	1	-	2	1	1	1	1
	Butyl Alcohol	1	1	1	1	-	1	1	1	1	1	1	1
	Butyl Amine	-	-	-	-	-	1	1	1	1	1	1	1
	Butyl Carbitol	2	2	-	1	-	1	-	1	1	1	1	1
	Butyl Mercaptan	-	-	-	-	-	1	-	-	1	1	1	-
	Butyl Stearate	X	2	2	2	-	1	-	1	1	1	1	1
	Butyraldehyde	X	X	-	2	-	1	-	-	-	-	-	1
C													
	Calcium Acetate	X	X	X	1	X	1	-	2	2	2	X	1
	Calcium Arsenate	-	-	-	-	-	1	1	-	-	-	-	-
	Calcium Bisulfate	1	1	2	1	1	1	-	-	2	1	-	X
	Calcium Bisulfide	1	1	2	1	1	1	-	-	2	2	X	X
	Calcium Bisulfite	1	1	1	1	1	1	1	X	1	1	1	X
	Calcium Carbonate	1	1	1	1	1	1	1	2	1	1	X	1
	Calcium Chlorate	1	1	1	-	1	1	-	2	2	1	1	-
	Calcium Chloride	1	1	1	1	1	1	1	X	2	1	X	-
	Calcium Hydroxide	1	2	2	1	1	1	-	X	X	1	-	2
	Calcium Hydroxide, 10% Boiling	-	2	-	-	-	1	X	2	1	1	X	X
	Calcium Hydroxide, 20% Boiling	-	-	-	-	-	1	X	-	1	1	X	X
	Calcium Hydroxide, 50% Boiling	-	-	-	-	-	1	X	-	X	2	X	X
	Calcium Hypochlorite, 5% (Under 38°C)	X	2	X	1	2	1	X	X	X	2	X	X
	Calcium Hypochlorite, 15% (Under 38°C)	X	-	X	1	2	1	X	-	X	2	X	X
	Calcium Nitrate	1	1	1	1	1	1	1	X	2	2	X	1
	Calcium Silicate	-	2	-	1	2	1	-	1	1	1	1	1

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name <i>Contact your Gates Product Application Engineer for chemicals not listed</i>													
Calcium Sulfate		1	1	1	1	1	1	-	2	1	1	2	1
Calcium Sulfide		1	2	-	1	-	1	2	2	1	1	2	-
Caliche Liquors		1	2	-	1	1	1	-	1	1	1	-	-
Cane Sugar Liquors		1	1	2	1	-	1	-	1	1	1	1	2
Carbolic Acid, Phenol		X	X	X	1	X	1	X	X	1	1	2	X
Carbon Dioxide, Dry		2	1	1	1	1	1	-	1	1	1	1	1
Carbon Dioxide, Wet		2	1	1	1	1	1	-	1	1	1	1	1
Carbon Disulfide		X	X	-	2	X	1	1	2	1	1	2	X
Carbon Monoxide, Under 66°C (Hot)		2	2	2	1	1	1	2	1	1	1	1	1
Carbon Tetrachloride, 5%-10%		-	-	-	-	-	1	-	-	X	-	-	-
Carbon Tetrachloride, Pure		X	X	X	2	X	1	X	X	X	2	2	2
Carbonic Acid		1	1	1	1	1	1	-	X	1	1	2	X
Castor Oil		2	2	2	1	2	1	1	1	1	1	1	1
Caustic Soda, 20%		2	X	X	1	1	1	2	2	1	1	X	X
Caustic Soda, 50%		2	X	X	1	1	1	2	2	1	1	X	X
Cellosolve Acetate, Under 38°C		X	X	X	2	X	1	-	2	2	2	1	-
Cellosolve, Butyl, Under 38°C		X	X	X	-	X	1	-	2	2	2	2	-
Cellosolve, Union Carbide, Under 38°C		X	X	-	-	-	1	-	2	2	2	2	-
Cellugard, Cellugard 200		1	1	-	-	-	1	-	1	1	1	1	1
Cellulube 90, 150, 220, 300, 550		X	X	X	-	X	1	-	1	1	1	1	1
Cellulube 1000, 220A, ST220, A60		X	X	X	-	X	1	-	1	1	1	1	1
Cellutherm 2505A		X	2	-	-	-	-	-	-	-	-	-	-
Chevron Fr-10,13,20.8		-	-	-	-	-	1	-	1	1	1	-	1
Chlordane		X	X	X	-	X	1	1	-	-	-	-	-
Chlorinate Paraffin & Petroleum Oil		-	-	-	-	-	1	-	1	1	1	1	1
Chlorine Gas, Dry		-	X	-	-	-	1	-	2	X	X	-	2
Chlorine Gas, Wet		-	X	-	-	-	1	-	X	X	X	X	X
Chlorine Trifluoride		X	X	-	-	-	-	-	1	1	1	1	-
Chlorine Water, 3% Chlorine		X	X	X	-	-	1	-	-	X	X	-	-
Chlorine Water, 25% Chlorine		X	X	X	-	2	1	2	-	X	X	-	-
Chloroacetic Acid (Under 38°C)		X	X	X	-	2	1	X	X	X	X	-	2
Chlorobenzene		X	X	X	X	X	1	X	2	2	2	X	1
Chlorobromo Methane		X	X	X	-	X	1	-	2	2	2	X	1
Chloroform		X	X	X	X	X	1	X	2	1	1	X	1
O-Chloronaphthalene		X	X	X	-	-	1	2	1	1	1	-	1
Chlorosulfonic Acid		2	X	X	X	-	1	X	1	-	-	-	-
Chlorotoluene		X	X	X	X	X	1	-	1	1	1	X	1
Chlorox, Bleach		2	2	-	1	2	1	1	X	X	2	X	X
Chromic Acid, 5%		X	X	-	-	-	1	X	X	X	2	X	X
Chromic Acid, 10%		X	X	X	1	2	1	X	X	X	2	X	X
Chromic Acid, 25%		X	X	X	1	2	1	X	X	X	2	X	X
Chromic Acid, 50%		X	X	X	1	2	1	X	X	X	2	1	X

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name													
	Chromic Acid, 100%	-	-	-	-	-	1	-	X	X	2	-	X
	Circo Light Process Oil	1	1	-	-	-	1	-	1	1	1	1	-
	Citgo FR Fluids	-	X	-	X	-	1	-	1	1	1	-	1
	Citgo Glycol FR-20XD	-	1	-	-	-	1	-	1	1	1	-	1
	Citgo Sentry (Under 38°C)	2	2	1	-	X	1	-	1	1	1	-	1
	Citgo Tractor Hydraulic Fluid	-	1	-	-	-	1	-	1	1	1	-	1
	Citric Acid, 5%	-	2	-	-	-	1	1	X	1	1	1	X
	Citric Acid, 5% @ 66°C	-	2	-	-	-	1	X	X	X	1	2	X
	Citric Acid, 15%	1	2	-	-	-	1	1	X	X	1	-	1
	Citric Acid, 15% Boiling	1	2	-	-	-	1	X	X	2	1	X	X
	Citric Acid, Concentrated Boiling	1	X	1	-	1	1	X	X	X	1	X	X
	Coal Gas	1	X	-	1	-	1	-	-	-	-	-	-
	Coal Tars	X	2	X	2	2	1	X	1	1	1	1	1
	Cod Liver Oil	1	1	1	-	-	1	-	1	1	1	1	1
	Coke Oven Gas (Under 66°C)	X	2	X	-	2	1	-	1	1	1	1	1
	Condor 1000,1002,1004, 1006,1008	-	2	-	-	-	-	-	-	-	-	-	-
	Condor 1008,1010,1012, 1014,1016	-	2	-	-	-	-	-	-	-	-	-	-
	Convelex 10	X	X	-	-	-	-	-	-	-	-	-	-
	Copper Arsenate, Cupric Arsenate	-	-	-	-	2	1	-	1	1	1	-	-
	Copper Chloride, 1%	1	1	-	-	-	1	X	X	X	1	-	X
	Copper Chloride, 5%	1	1	-	-	-	1	X	X	X	1	-	-
	Copper Chloride, Cupric Chloride	2	2	2	2	2	1	2	X	X	1	-	X
	Copper Cyanide, Cupric Cyanide	2	2	2	-	2	1	X	1	1	1	-	X
	Copper Nitrate, 1% & 5%	1	1	-	-	-	1	1	X	1	1	X	X
	Copper Nitrate, Cupric Nitrate	1	1	1	1	1	1	-	1	1	1	1	-
	Copper Sulfate, Cupric Sulfate	1	1	1	1	1	1	1	X	1	1	X	X
	Copper Sulfate, 10%	1	1	-	-	-	1	-	X	2	2	X	-
	Copper Sulfate, 50%	1	1	-	-	-	1	-	-	2	2	-	-
	Corn Oil	X	2	2	2	X	1	-	1	1	1	-	1
	Corn Syrup	2	2	-	2	-	1	-	1	1	1	1	-
	Cottonseed Oil	2	2	1	2	2	1	2	1	1	1	1	1
	Creosote, Wood Or Coal Tar (Under 38°C)	X	2	X	-	X	1	X	2	1	1	1	X
	Cresol, Cresylic Acid (Under 38°C)	X	X	X	1	X	1	X	2	1	1	2	-
	Cyesylic Acid	X	X	-	-	-	1	X	1	1	1	1	-
	Crude Petroleum Oil (Under 38°C)	X	X	2	2	2	1	-	X	X	2	1	-
	Cutting Oil, Water Soluble	X	1	-	-	-	1	-	1	1	1	-	1
	Cutting Oil, Sulfur Base	X	1	-	-	-	1	-	1	1	1	1	1
	Cutting Oil	2	1	2	1	X	1	-	1	1	1	1	1
	Cyclohexane	X	2	-	1	X	1	1	1	1	1	1	1
	Cyclohexanone	X	X	X	2	X	1	1	-	1	1	2	-
	Cymene	X	X	X	X	X	1	-	1	1	1	1	1

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name													
D													
	Dasco FR150, FR200, FR200B, FR310	-	1	-	-	-	1	1	1	1	1	1	1
	Dasco IFR	-	1	-	-	-	1	1	1	1	1	1	1
	DC200, DC510, DC550, DC560	-	1	-	-	-	-	1	-	1	1	1	1
	Decalin	X	2	-	2	X	1	1	-	-	-	-	1
	Dectol R&O Oils	X	1	-	-	-	-	-	-	-	-	-	-
	Denatured Alcohol	1	1	1	1	-	1	1	1	1	1	1	1
	Developing Fluids, Photo	1	1	-	1	-	-	-	X	X	2	-	-
	Developing Solutions, Hypos	2	-	-	1	2	1	-	-	1	1	-	-
	Diacetone	X	X	X	1	X	1	1	1	1	1	1	1
	Diacetone Alcohol	-	X	-	1	-	1	1	1	1	1	1	1
	Dibenzel Ether	X	X	-	2	-	1	-	1	1	1	1	1
	Dibutyl Ether	X	X	-	1	-	1	-	1	1	1	1	1
	Dibutyl Phthalate (Under 50°C)	X	X	X	2	X	1	-	1	1	1	1	1
	Dibutyl Sebacate	X	X	X	2	-	1	-	-	-	-	-	1
	Dichlorobenzene	X	X	X	X	X	1	1	-	1	1	-	1
	Dichloroethane	X	X	X	X	-	1	X	-	X	X	X	X
	Diesel Oil, Fuel ASTM #2	[2]	1	[2]	2	X	1	1	1	1	1	1	1
	Diester Lubricant MIL-I-7808	X	2	-	-	-	1	-	1	1	1	1	-
	Diester Synthetic Lubricants	X	2	-	-	-	1	-	1	1	1	1	-
	Diethylamine (Under 50°C)	2	2	-	2	X	1	1	1	1	1	1	1
	Diethylene Glycol	1	1	1	1	1	1	1	1	1	1	1	1
	Diethy Ether	X	X	-	1	-	1	-	1	1	1	1	1
	Diethyl Phthalate	-	X	-	2	-	1	-	-	1	1	-	1
	Diethyl Sebacate	X	X	X	2	-	1	-	-	1	1	-	1
	Diisobutylene	X	2	-	1	X	1	-	2	1	1	2	1
	Diisobutyl Ketone	X	X	X	2	X	1	1	1	1	1	1	1
	Diisopropyl Ketone	X	X	X	2	X	1	1	-	1	1	-	1
	Dimethyl Aniline	X	X	X	2	X	1	-	-	-	-	-	1
	Dimethyl Formamide (Under 50°C)	X	X	X	-	-	1	-	1	1	1	1	-
	Dimethyl Phthalate	X	X	X	1	X	1	-	-	-	-	-	1
	Dioctyl Phthalate	X	X	X	2	X	1	-	1	1	1	1	1
	Dioctyl Sebacate	X	X	X	X	X	1	-	1	1	1	1	-
	Dioxane	X	X	X	2	-	1	1	1	1	1	1	1
	Dipentene	X	X	-	2	-	1	-	1	1	1	1	1
	Dirco Oils	-	1	-	-	-	1	1	1	1	1	1	1
	Dispersing Oil #10	X	X	-	-	-	1	-	1	1	1	1	-
	Dowtherm A	X	X	X	2	X	1	-	1	1	1	1	1
	Dowtherm E	X	X	-	2	-	1	-	1	1	1	1	1
	DP47, 200 Flow - DOW	-	1	-	-	-	1	1	1	1	1	1	1
	Duro FR-HD	-	1	-	-	-	1	1	1	1	1	1	1
	Duro Oils	-	1	-	-	-	1	1	1	1	1	1	1

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name													
E													
	Elco 28-EPLubricant	X	1	-	-	-	-	-	1	1	1	1	-
	Enamels	-	-	-	-	-	1	1	-	-	-	-	1
	Energol HL68	-	1	-	-	-	-	-	1	1	1	1	1
	Energol HLPC 68	-	1	-	-	-	-	-	1	1	1	1	1
	EPHydraulic Oils, Chevron	-	1	-	-	-	-	-	1	1	1	1	1
	Epichlorohydrin (Under 50°C)	X	X	-	-	-	1	-	1	2	1	1	-
	Esam-6 Fluid	2	-	-	-	-	-	-	-	-	-	-	-
	Ethanol	1	1	-	1	-	1	1	X	1	1	-	1
	Ethanolamine, Aminoethanol	2	2	-	1	X	1	1	1	1	1	1	1
	Ethers (Under 50°C)	X	2	X	1	2	1	1	1	1	1	1	1
	Ethyl Acetate	X	X	X	2	X	1	1	1	1	1	2	2
	Ethyl Acetoacetate	X	X	X	1	X	1	-	1	1	1	1	1
	Ethyl Acrylate	X	X	X	2	X	1	-	1	1	1	1	-
	Ethyl Alcohol	1	1	1	1	-	1	1	1	1	1	1	2
	Ethyl Amine, Monoethylamine	X	X	X	1	X	1	-	2	1	1	2	1
	Ethyl Benzene	X	X	X	2	X	1	-	1	1	1	1	1
	Ethyl Bromide, Di	X	X	X	2	X	1	-	1	1	1	1	1
	Ethyl Butyrate	X	X	X	-	-	1	-	-	1	1	1	-
	Ethyl Cellulose	-	-	-	1	-	1	-	1	1	1	-	1
	Ethyl Chloride	X	X	X	-	-	1	-	2	1	1	1	2
	Ethyl Ether		X	X	X	-	1	-	2	1	1	1	1
	Ethyl Mercaptan	X	X	X	-	X	1	-	2	-	-	-	-
	Ethyl Oxalate	X	X	-	1	X	1	-	-	-	-	-	-
	Ethyl Pentachlorobenzene	-	X	-	X	-	1	-	2	1	1	-	1
	Ethyl Silicate	1	1	1	1	-	1	1	1	1	1	1	1
	Ethylene Chloride	X	X	X	X	-	1	X	-	1	1	-	2
	Ethylene Chlorohydrin, Under 38°C	X	X	X	-	-	1	X	1	1	2	X	-
	Ethylene Diamine (Under 38°C)	2	2	2	1	X	1	-	-	-	-	-	1
	Ethylene Dichloride	X	X	X	X	-	1	X	-	1	1	X	2
	Ethylene Glycol	1	1	1	1	1	1	1	2	1	1	1	1
F													
	Factovis 52	-	1	-	-	-	-	-	1	1	1	1	1
	Fatty Acids	2	2	2	2	X	1	1	2	1	1	1	2
	Ferric Chloride	-	-	-	1	2	1	1	X	X	X	X	X
	Ferric Chloride, 1%	1	1	-	-	-	1	1	X	2	2	X	X
	Ferric Chloride, 1% Boiling	-	2	-	-	-	1	1	X	X	X	X	X
	Ferric Chloride, 5% Still	2	1	-	-	-	1	1	X	X	X	X	X
	Ferric Chloride, 5% Agitated or Aerated	2	2	-	-	-	1	1	X	X	X	X	X
	Ferric Chloride, 10%	2	1	-	-	-	1	1	X	X	X	X	X
	Ferric Sulfate	2	2	2	1	2	1	1	X	1	1	X	X
	Ferrous Chloride	1	1	-	1	2	1	-	X	1	2	-	2

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Chemical Name		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
	Ferrous Nitrate	2	2	2	-	2	1	-	-	1	1	-	-
	Ferrous Sulfate, Copper Gas	2	2	2	1	2	1	-	X	1	1	1	2
	Ferrous Sulfate, 10%	1	1	-	-	-	1	1	X	2	2	X	-
	Ferrous Sulfate, Saturated	1	-	-	-	-	1	1	-	2	2	X	-
	Fire Resistant Hydraulic Fluid, Texaco	-	1	-	-	-	1	-	1	1	1	1	1
	Firtec 290, MF	-	-	-	-	-	1	-	-	-	-	-	-
	Fixing Solution, Photo	2	-	-	-	2	1	-	-	1	1	-	-
	Fluoboric Acid	1	1	-	1	-	1	-	1	-	1	X	-
	Fluoboric Acid, 65%	2	-	-	1	2	1	-	-	1	1	-	-
	Fluosilicic Acid	2	1	-	-	-	1	-	X	X	X	X	1
	Fluosilicic Acid, 50%	2	X	X	1	2	1	X	-	-	-	1	-
	Formaldehyde	1	X	-	1	-	1	2	1	1	1	1	X
	Formaldehyde, 37%	2	2	-	1	2	1	-	-	1	1	1	1
	Formaldehyde, Hot	-	-	-	-	-	1	1	X	2	1	2	1
	Formic Acid (Under 50°C)	1	X	1	1	2	1	2	X	2	1	1	2
	Formic Acid, Dilute Hot	1	X	-	1	-	1	X	X	2	1	2	X
	Freon 12 (Under 38°C)	-	-	-	-	-	-	-	2	1	1	1	1
	Freon 114	-	-	-	-	-	-	-	1	1	1	1	-
	Fruit Juices	-	-	-	-	-	1	1	X	1	1	-	-
	Fuel Oil	[2]	1	[1]	1	X	1	1	2	2	2	1	2
	Fumaric Acid	2	X	-	-	-	1	-	1	1	1	-	-
	Furan, Furfuran	X	X	X	1	-	1	-	1	1	1	1	1
	Furan Resin	X	X	-	-	-	1	-	-	-	1	-	-
	Furfural Alcohol, Ant Oil	2	X	X	1	2	1	1	2	1	1	1	1
	Fusel Oil, Grain Oil	X	X	-	-	-	1	-	-	-	-	-	-
	Fyrguard 150, 200	-	1	-	-	-	1	-	1	1	1	1	1
	Fyrquel A60, 90, 100, 150, 220, 300, 500	X	X	-	-	-	1	-	1	-	-	1	-
	Fyrquel 1000, 15R&O, 220R&O, 550R&O	X	X	-	-	-	1	-	1	-	-	1	-
G													
	Gallic Acid (Under 38°C)	X	X	X	1	-	1	2	X	1	1	X	-
	Gas, Natural	-	-	-	X	-	1	-	1	1	1	-	2
	Gasohol	2	-	-	-	X	1	-	2	1	1	1	1
	Gasoline, Aviation	X	-	2	-	-	1	-	-	1	1	1	1
	Gasoline, Meter	X	-	-	-	-	1	X	1	1	1	1	X
	Gasoline, Premium	[2]	-	-	-	X	1	-	2	1	1	1	1
	Gasoline, Sour	X	X	-	-	-	1	-	2	1	1	X	-
	Gasoline, Standard	[1]	-	-	2	X	1	-	2	1	1	1	1
	Gasoline, Unleaded Under 50% Aromatics	X	-	X	-	X	1	-	2	1	1	1	1
	Gelatin	1	1	-	-	-	1	1	X	1	1	1	-
	Glauber's Salt	2	X	-	-	-	1	-	1	1	1	-	-
	Glucose	1	1	1	-	1	1	1	1	1	1	1	1
	Glue (Under 50°C)	2	2	2	-	1	1	2	2	1	1	2	X

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name													
	Glycerine, Glycerol	1	1	1	1	1	1	1	2	1	1	1	2
	Glycol FR Fluids	-	1	-	-	-	1	-	1	1	1	1	1
	Glycols (Under 50°C)	1	1	1	1	1	1	1	2	1	1	1	1
	Grease, Ester Base	-	-	-	-	-	1	1	1	1	1	1	1
	Grease, Petroleum Base	2	1	2	-	2	1	1	1	1	1	1	1
	Grease, Silicone Base	-	-	-	-	-	1	1	1	1	1	1	1
	Green Sulfate Liquor, Under 38°C	2	2	1	2	1	1	-	1	1	1	-	-
	Gulf FR Fluid G-200	-	1	-	-	-	1	-	1	1	1	1	1
	Gulf FR Fluid P37, P40, P43, P45, P47	-	X	-	-	-	1	-	-	-	-	-	-
H													
	Halowax Oil	X	X	X	-	X	1	-	-	-	-	-	-
	Heptachlor, In Petroleum	-	2	X	-	-	1	-	-	-	-	-	-
	Heptane (Under 38°C)	[2]	1	[2]	1	X	1	1	1	1	1	1	1
	N-Hexaldehyde	2	X	2	-	-	1	-	1	1	1	1	1
	Hexane (Under 50°C)	[2]	1	[2]	2	1	1	1	1	1	1	1	1
	Hexene	[2]	2	-	1	-	1	-	1	1	1	-	1
	Hexyl Alcohol	1	2	1	1	-	1	-	1	1	1	1	2
	High Viscosity Lubricant, U4	2	1	-	-	-	1	-	-	-	-	-	-
	High Viscosity Lubricant, H2	2	1	-	-	-	1	-	-	-	-	-	-
	Hilo MS #1	X	X	-	-	-	-	-	-	-	-	-	-
	Houghto-Safe 1010,1055 (Phos. Ester)	X	X	X	1	X	1	-	1	1	1	1	1
	Houghto-Safe 1115,1120,1130 (Phos. Ester)	X	X	X	1	X	1	-	1	1	1	1	1
	Houghto-Safe 271,416,520, 616 (Water/Glycol)	2	1	1	-	-	1	-	1	1	1	1	1
	Houghto-Safe 620, 625, 640, 525 (Water/Glycol)	1	1	1	-	-	1	-	1	1	1	1	1
	Houghto-Safe 5046, 5046W (Water/Oil Emulsion)	2	1	-	-	-	1	-	1	1	1	1	1
	Hy-Chock Oil	-	1	-	-	-	1	1	1	1	1	-	-
	Hydrafluid 760, Texaco and Houghton	-	1	-	-	-	1	1	1	1	1	-	1
	Hydrafluid AZR&O, A, B, AA, C	-	1	-	-	-	1	1	1	1	1	-	1
	Hydrasol A	-	1	-	-	-	1	1	1	1	1	-	-
	Hydraulic Fluid, Phosphate Ester Base	X	X	X	1	-	1	1	1	1	1	-	-
	Hydraulic Fluid, Std. Petroleum Oils	2	1	2	1	2	1	1	1	1	1	1	1
	Hydraulic Fluid, Water Glycol Base	1	1	1	-	-	1	1	1	1	1	1	1
	Hydraulic Fluid HF - 18, HF - 20	-	1	-	-	-	1	1	1	1	1	1	1
	Hydraulic Fluid HF - 31	-	-	-	-	-	1	1	1	1	1	1	1
	Hydraulic Oils, Petroleum	2	1	-	-	-	1	1	1	1	1	1	1
	Hydraulic Oils, Synthetic	-	X	-	-	-	1	-	1	1	1	1	1
	Hydraulic Safety Fluid 200 & 300, Texaco	-	1	-	-	-	1	-	1	1	1	1	1
	Hydrazine	X	X	X	-	-	1	-	-	-	-	-	-
	Hydro-Drive Oil, Houghton	-	1	-	-	-	1	-	-	-	-	-	-
	Hydrobromic Acid	X	X	-	-	-	1	X	1	1	1	X	-
	Hydrobromic Acid, 37%	X	X	X	1	2	1	X	1	1	1	X	-
	Hydrochloric Acid	2	X	-	-	-	1	X	X	X	X	X	X

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	Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name												
Hydrochloric Acid, 3 Molar	2	X	-	-	-	1	X	X	X	X	X	X
Hydrochloric Acid, Concentrated	X	X	-	-	-	1	X	X	X	X	X	X
Hydrochloric Acid, 15%	X	X	X	1	2	1	X	X	X	X	X	X
Hydrochloric Acid, 37%	X	-	X	1	2	1	X	X	X	X	X	X
Hydrocyanic Acid, 20% Under 38°C	X	X	X	-	2	1	1	X	1	1	1	X
Hydrocyanic Acid, 98%	-	-	-	-	-	1	-	-	-	-	-	-
Hydrofluoric Acid, 10%	2	2	X	1	1	1	X	X	X	X	X	X
Hydrofluoric Acid, 20% (Under 50°C)	2	X	X	1	2	1	X	X	X	X	X	X
Hydrofluoric Acid, 48% (Under 50°C)	2	X	X	1	2	1	X	X	X	X	X	X
Hydrofluoric Acid, 70%	-	X	X	-	2	1	X	X	X	X	X	X
Hydrofluoric Acid, Concentrated	X	X	X	1	2	1	X	X	X	X	X	X
Hydrofluoric Acid, Anhydrous	-	X	-	-	-	1	-	-	-	-	-	-
Hydrofluosilicic	X	X	X	X	-	1	X	X	X	X	X	1
Hydrogen	1	1	-	1	-	1	-	X	X	X	1	-
Hydrogen Chloride Gas	-	-	-	1	-	1	-	-	1	1	-	-
Hydrogen Cyanide Gas	-	-	-	-	-	-	-	-	-	-	1	-
Hydrogen Fluoride (Under 38°C)	-	X	-	-	-	1	-	2	2	1	-	-
Hydrogen Peroxide, Dilute	1	2	-	-	-	1	1	1	-	1	-	X
Hydrogen Peroxide, 10%	X	1	X	1	2	1	X	X	2	1	1	X
Hydrogen Peroxide, 30%	X	2	X	1	2	1	X	X	2	1	1	X
Hydrogen Peroxide, 70%	X	X	X	1	-	1	X	X	2	1	1	X
Hydrogen Peroxide, 90%	X	X	-	-	-	1	-	X	2	1	-	X
Hydrogen Sulfide	2	X	-	-	-	1	1	2	2	1	-	X
Hydrogen Sulfide Aqueous Solution	2	X	-	-	-	1	-	X	-	-	X	-
Hydrogen Sulfide, Gas	-	-	-	-	-	-	-	-	-	-	-	-
Hydrolube, Water Glycol	2	1	-	-	-	1	-	1	1	1	-	1
Hydrolubric Oil, Houghton	-	2	-	-	-	1	1	-	-	-	-	-
Hydroquinone	X	-	-	-	X	1	-	-	1	1	2	-
Hykil No.6 (33%); Water (67%)	-	2	-	-	-	1	-	1	-	-	-	-
Hypochlorous Acid (Under 50°C)	X	X	X	-	2	1	1	2	2	2	X	-
Hypoid Grease (Parapoid 10-C)	-	1	-	-	-	1	-	-	-	-	-	-
I												
Imol, Imol S150, S220, S300, S500	-	1	-	-	-	1	1	1	1	1	1	-
Industron 53	-	1	-	-	-	1	-	-	-	-	-	-
Ink (Printers)	1	1	-	-	-	1	1	2	2	1	-	2
Ink Oil	-	2	-	-	-	1	-	1	1	1	-	1
Insulating Oil (Transformer)	2	1	2	-	X	1	-	1	1	1	-	1
Isobutyl Alcohol	2	2	2	1	-	1	1	1	1	1	1	2
Iodine (Under 38°C)	X	X	-	1	2	1	1	2	2	2	X	-
Iodine, In Alcohol	2	-	-	-	-	1	-	-	-	-	X	-
Iodine Pentafluoride	X	X	-	-	-	1	-	X	2	2	X	-
Isooctane	1	1	2	2	1	1	1	1	1	1	2	1

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Chemical Name													
	Isooctyl Thioglucolate	-	-	-	-	-	1	1	-	-	-	-	-
	Isobutane - WET	X	X	-	-	-	1	X	X	1	1	2	1
	Isopropyl Acetate	X	X	X	-	X	1	1	2	2	1	X	1
	Isopropyl Alcohol (Isopropanol)	2	2	2	1	2	1	1	1	1	1	1	2
	Isopropyl Ether	X	X	X	-	-	1	1	1	1	1	1	1
J													
	Fuel JP-3 (Under 38°C)	[2]	1	[2]	-	X	1	1	1	1	1	2	1
	Jet Fuel JP-4 (Under 38°C)	[X]	1	[2]	-	X	1	1	1	1	1	2	1
	Jet Fuel JP-5	X	1	X	-	X	1	1	2	1	1	2	1
	Jet Fuel JP-6	X	1	X	-	X	1	1	2	1	1	2	1
	Jet Fuel JP-x	2	1	X	-	X	1	1	2	1	1	2	1
K													
	Kerosene	X	1	[2]	1	X	1	1	1	1	1	1	1
	Ketchup	1	1	-	-	-	1	1	-	1	1	-	-
	Ketones	X	X	X	-	X	1	1	1	1	1	2	1
L													
	Lacquer Solvents	X	X	X	-	X	1	1	X	2	1	1	1
	Lacquers	X	X	X	-	X	1	1	X	X	1	1	1
	Lactic Acid	1	X	X	-	1	1	-	X	2	1	X	2
	Lactic Acid (5%)	2	1	-	-	-	1	1	X	2	1	1	X
	Lactic Acid (5% Boiling)	X	X	-	-	-	1	-	X	2	1	2	X
	Lactic Acid (10% Boiling)	X	X	-	-	-	1	-	X	2	1	X	X
	Lactol	2	2	2	-	-	1	-	1	1	1	1	1
	Lard	2	1	-	1	-	1	1	1	1	1	1	X
	Lasso (Ag Spray)	-	-	-	-	-	1	1	-	1	1	-	-
	Latex	1	1	-	-	X	1	1	1	1	1	1	1
	Lead Acetate	X	X	-	1	2	1	-	2	2	2	X	1
	Lead Arsenate	2	2	-	-	-	1	-	1	1	1	-	-
	Lead Nitrate	2	2	-	-	1	1	-	1	2	2	-	-
	Lead Sulfate	1	1	-	1	2	1	-	1	1	1	-	-
	Lead, Tetraethyl (Under 38°C)	X	2	X	-	X	1	2	-	-	-	-	-
	Lead, Tetramethyl	X	2	X	-	X	1	-	-	-	-	-	-
	Lecithin	2	X	-	-	-	1	-	-	1	1	-	-
	Ligroin (Petroleum Ether, Under 50°C)	X	1	-	-	X	1	-	2	1	1	X	-
	Lime (Chlorinated, Free Chlorine 20%)	-	1	-	1	-	-	-	-	-	2	-	-
	Lime Bleach (Under 38°C)	X	2	X	-	X	-	-	X	2	1	-	-
	Lime Sulphur	1	X	-	-	-	2	1	2	1	1	X	X
	Lime Sulfur (Under 57°C)	1	X	X	-	2	2	1	2	1	1	X	X
	Lindane (Ag Spray)	-	-	-	-	-	1	1	-	1	1	-	-
	Linoleic Acid	X	2	X	-	-	1	-	X	2	1	1	-
	Linseed Oil	X	1	-	-	-	1	1	1	1	1	2	2
	Linseed Oil (Boiled)	2	2	1	1	1	1	-	2	1	1	1	2

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
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Chemical Name													
	Lubricating Oil (SAE 10, 20, 30, 40, 50)	2	2	-	-	-	1	1	1	1	1	1	1
	Lubricating Oils (Diester, Under 57°C)	X	2	X	-	-	1	1	1	1	1	1	1
M													
	Machine Oil (Under 57°C)	1	1	2	-	2	1	1	1	1	1	1	1
	Magnesium Carbonate	1	1	1	-	1	1	-	2	2	2	1	-
	Magnesium Chloride	1	1	1	1	1	1	1	X	2	1	X	2
	Magnesium Hydroxide	2	2	2	1	1	1	-	1	1	1	X	X
	Magnesium Nitrate	2	2	2	-	1	1	-	2	2	2	X	1
	Magnesium Sulfate	2	2	2	1	1	1	1	2	2	2	2	2
	Malathion (Ag Spray Dilute)	-	2	-	-	-	1	1	1	1	1	-	1
	Maleic Acid	2	X	-	-	-	1	-	2	2	1	-	-
	Malic Acid	-	-	-	-	-	1	-	2	2	1	-	-
	Manganese Salts	-	1	1	-	1	1	-	-	-	-	-	-
	Maxmul (Penzoil Hydraulic Fluid)	2	1	2	-	-	1	-	1	-	1	-	-
	Mercuric Chloride	1	2	2	1	1	1	X	X	1	1	X	X
	Mercuric Cyanide	1	2	2	-	1	-	-	2	2	2	X	-
	Mercurous Nitrate (Under 50°C)	1	2	2	-	1	1	-	1	1	1	X	-
	Mercury	1	2	2	1	1	1	1	1	1	1	X	X
	Mesityl Oxide	X	X	X	2	X	1	-	1	1	1	1	1
	Methane	2	1	-	-	-	1	-	-	1	1	-	-
	Methoxychlor (Insecticide)	-	-	-	-	-	1	X	1	1	1	-	-
	Methyl Acetate	X	X	X	1	X	1	-	1	1	1	1	1
	Methyl Acrylate	X	X	X	-	X	1	-	1	1	1	1	1
	Methyl Alcohol	1	1	1	1	-	1	1	1	1	1	1	2
	Methyl Amine (25% Aqueous Solution)	2	X	-	-	-	1	-	1	1	1	1	-
	Methyl Amine (60%)	2	2	-	-	-	1	2	1	1	1	1	2
	Methyl Amine (99%)	X	X	-	-	-	1	-	1	1	1	1	X
	Methyl Bromide	X	X	X	-	X	1	1	1	1	1	X	1
	Methyl Butyl Ketone (MBK)	X	X	X	2	X	1	-	1	1	1	1	1
	Methyl Cellosolve (Under 38°C)	2	X	-	1	X	1	-	2	2	2	2	1
	Methyl Chloride	X	X	X	X	X	1	1	1	1	1	-	1
	Methyl Ethyl Ketone (MEK)	X	X	X	2	X	1	1	1	1	1	2	1
	Methyl Formate	2	X	X	-	X	1	-	2	1	1	1	1
	Methyl Isobutyl Ketone (MIBK, 38°C)	X	X	X	2	X	1	1	1	1	1	1	1
	Methyl Isopropyl Ketone	X	X	X	2	X	1	1	1	1	1	1	1
	Methyl Methacrylate	X	X	X	2	2	1	-	2	2	2	-	-
	Methyl Salicylate	2	2	2	-	-	1	-	1	1	1	1	1
	Methyl Sulfate (Dimethyl, Under 38°C)	X	X	X	-	X	1	1	1	1	1	-	-
	Methylene Chloride	X	X	X	X	X	1	X	1	1	1	X	1
	Methylene Dichloride	X	X	X	-	-	1	1	1	1	1	X	1
	Mineral Oil (Under 50°C)	1	1	1	1	1	1	1	1	1	1	2	1
	Mineral Spirits	-	1	2	-	X	1	-	1	1	1	2	1

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Chemical Name													
	Mobile Therm 603	-	1	-	-	-	1	-	1	1	1	1	1
	Molasses (Under 50°C)	2	2	2	-	1	1	-	2	1	1	2	X
	Monochlorobenzene	X	X	X	X	X	1	-	1	1	1	X	1
	Monoethanolamine	X	2	-	1	X	1	-	1	1	1	2	1
	Morpholine (Pure Additive)	-	-	-	-	-	1	-	-	1	1	-	-
	Motor Oils (Under 57°C)	2	1	2	1	2	1	1	1	1	1	1	1
	Mould Oil	-	-	-	-	-	1	-	1	1	1	-	-
	Muriatic Acid (Hydrochloric)	X	X	X	1	2	1	X	X	X	X	X	X
	Mustard	1	2	1	-	1	1	-	X	1	1	2	-
N													
	Naphtha (Low Aromatic Content)	X	2	X	1	X	1	1	2	1	1	1	1
	Naphthalene (Tar Camphor)	X	X	X	1	X	1	1	1	1	1	1	1
	Naphthalene	X	X	X	-	X	1	-	1	1	1	-	1
	Naphthenic Acid	-	2	-	-	-	1	-	-	2	1	-	-
	Natural Gas	-	-	-	-	-	1	-	1	1	1	-	2
	Nickel Acetate	-	-	-	-	-	1	-	1	1	1	1	1
	Nickel Chloride	2	2	2	1	2	1	1	1	1	1	1	1
	Nickel Nitrate	2	2	2	1	2	1	1	2	2	2	X	-
	Nickel Plating Solution	-	2	-	-	2	1	-	-	1	1	-	-
	Nickel Salts	2	-	1	-	-	1	-	-	-	-	-	-
	Nicotine Salts	-	-	-	-	-	1	-	1	X	2	-	-
	Nitric Acid	X	X	-	-	-	1	-	X	1	1	-	X
	Nitric Acid, 3 Molar	X	X	-	-	-	1	-	X	1	1	-	X
	Nitric Acid, Concentrated (Boiling)	X	X	-	-	-	1	X	X	2	2	X	X
	Nitric Acid, Inhibited Red Fuming (IRFNA)	X	X	-	-	-	1	-	X	1	1	1	X
	Nitric Acid, Red Fuming (RNFA)	X	X	X	-	X	1	X	X	2	2	2	X
	Nitric Acid, 5% To 10%	X	X	X	1	2	1	X	X	2	2	1	X
	Nitric Acid, 20%	X	X	X	1	2	1	X	X	2	2	X	X
	Nitric Acid, 50% (Boiling)	X	X	X	X	X	1	X	X	2	2	X	X
	Nitric Acid, 65% (Boiling)	X	X	X	X	X	1	X	X	2	2	X	X
	Nitric Acid & Hydrochloric Acid	-	X	-	-	-	1	-	X	X	X	X	-
	Nitrobenzene (Under 38°C)	X	X	X	2	X	1	2	1	1	1	1	1
	Nitroethane	X	X	X	1	2	1	-	1	1	1	1	1
	Nitrogen	1	1	2	1	1	1	1	1	1	1	1	1
	Nitrogen Oxide Up To 50% (Under 38°C)	1	1	2	1	1	1	1	1	1	1	-	X
	Nitromethane	X	X	X	-	-	1	1	1	1	1	1	1
	Nitropropane	X	X	X	-	-	1	1	1	1	1	1	1
	Nyvac 20 (WG), 30 (WG)	-	1	-	-	-	1	-	1	1	1	1	1
	Nyvac FR Fluid	-	1	-	-	-	1	-	1	1	1	1	1
	Nyvac FR200 Fluid	-	1	-	-	-	1	-	1	1	1	1	1
	N-Octane	X	2	-	1	X	-	-	1	1	1	-	1

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Chemical Name <i>Contact your Gates Product Application Engineer for chemicals not listed</i>													
O													
	Octyl Alcohol	2	2	2	1	-	1	1	1	1	1	-	2
	Oils, Crude	X	2	-	-	-	1	-	1	-	-	-	-
	Oil (SAE, Under 38°C)	1	1	1	1	2	1	1	1	1	1	1	1
	Oleic Acid (Under 50°C)	2	2	2	1	2	1	-	2	2	1	1	2
	Oleum	X	X	X	X	X	1	X	-	-	1	-	-
	Olive Oil	X	2	2	2	X	1	-	2	1	1	1	2
	OS 45 Type III (OS45)	1	2	-	-	-	1	-	-	-	-	-	-
	OS 45 Type IV (OS45-1)	1	2	-	-	-	1	-	-	-	-	-	-
	OS 70	1	2	-	-	-	1	-	-	-	-	-	-
	Oxalic Acid (5%, Hot And Cold)	2	2	-	-	-	1	2	X	2	1	1	X
	Oxalic Acid (10%)	2	2	-	-	-	1	2	X	2	1	1	X
	Oxalic Acid (10% Boiling)	X	X	-	-	-	1	-	X	X	X	X	X
	Oxalic Acid	X	X	X	1	2	1	X	X	2	1	2	X
	Oxygen, Gaseous	-	-	-	-	-	1	-	1	1	1	1	1
	Ozone (Dry)	2	X	2	1	2	1	2	1	1	1	1	1
	Ozone (Wet)	-	X	-	-	-	1	-	X	2	1	2	-
P													
	Paint	X	-	-	-	X	1	2	-	1	1	1	1
	Paint Solvents (Oil Base)	X	X	-	-	X	1	2	-	1	1	1	1
	Paints (Oil Base)	-	1	-	-	1	1	1	-	-	-	-	-
	Paint Thinner, Duco	2	1	-	-	-	1	1	2	2	1	2	X
	Palmetic Acid	2	2	2	1	X	1	1	2	2	1	1	X
	Palm Oil	2	1	2	-	2	1	-	1	1	1	1	1
	Paraffin (Petroleum)	2	1	2	1	X	1	1	2	1	1	1	1
	Paraformaldehyde	2	2	2	-	2	1	-	1	1	1	1	-
	Peanut Oil (Less Than 38°C)	2	1	2	-	-	1	-	1	1	1	1	1
	Pentanol	2	2	2	-	2	1	1	1	1	1	1	1
	Perchloric Acid	X	X	-	-	2	1	X	X	2	1	X	-
	Perchloroethylene (Tetrachloroethylene)	X	X	X	2	X	1	2	1	1	1	X	X
	Petroleum Ether	X	2	-	1	-	1	-	2	1	1	-	1
	Petroleum Oil (Crude)	2	1	-	-	-	1	-	-	-	-	-	-
	Petroleum Oil (Below 121°C)	2	1	-	-	-	1	-	-	-	-	-	-
	Petroleum Oil (Above 121°C)	X	X	-	-	-	1	-	-	-	-	-	-
	Petroleum Oils (Under 38°C)	2	1	2	-	2	1	-	1	1	1	1	1
	Petroleum Oils (Refined)	2	1	2	-	2	1	1	1	1	1	1	1
	Petroleum Oils (Sour)	2	2	-	-	X	1	-	2	1	1	1	X
	Phenol (Carbolic Acid)	X	X	X	1	X	1	X	2	1	1	1	X
	Phenol (70/30 Water)	X	X	-	-	-	1	-	-	1	1	1	-
	Phenol (85/15 Water)	X	X	-	-	-	1	-	-	1	1	1	-
	Phorone (Diisopropylidene Acetone)	X	X	-	-	X	1	-	1	1	1	-	1
	Phosphate Esters (Concentrated)	X	X	-	X	X	1	2	-	-	-	-	-

Rating Scale: 1 = Excellent 2 = Good Resistance X = Not Recommended - = No Data [] - Cover stock rating only; Rating for tube stock "X"		Hoses							Couplings				
		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Contact your Gates Product Application Engineer for chemicals not listed													
Chemical Name													
	Phosphate Esters (3 Molar)	X	X	-	2	2	1	2	-	-	-	-	-
	Phosphate Esters (Dilute)	X	X	-	1	1	1	2	-	-	-	-	-
	Phosphoric Acid	2	2	-	-	-	1	-	-	-	2	-	-
	Phosphoric Acid (3 Molar)	X	X	-	-	-	1	-	-	-	-	-	-
	Phosphoric Acid (Concentrated)	X	X	-	-	-	1	-	-	-	-	-	-
	Phosphoric Acid (1%)	2	-	-	-	-	1	-	-	1	1	-	X
	Phosphoric Acid (5%)	2	X	-	-	-	1	-	-	1	1	-	X
	Phosphoric Acid (10%)	2	X	-	-	-	1	-	X	-	1	X	X
	Phosphoric Acid (10% Hot)	2	X	-	-	-	1	-	X	-	1	X	X
	Phosphoric Acid (50%)	2	2	2	1	1	1	X	X	2	1	X	2
	Phosphoric Acid (50% Hot)	2	X	-	-	-	1	-	X	X	2	X	X
	Phosphoric Acid (85%)	2	X	-	1	1	1	X	X	2	2	X	X
	Phosphoric Acid (85% Hot)	2	X	-	-	-	1	-	X	X	X	X	X
	Phosphoric Acid (Aerated)	-	-	-	-	-	1	-	X	-	2	-	-
	Phosphoric Acid Air Free	-	-	-	-	-	1	-	X	-	-	X	-
	Photographic Developers	1	1	-	-	-	1	-	X	1	1	-	-
	Photographic, Emulsions	-	-	-	-	-	1	-	-	-	-	-	-
	Photographic, Fixing Solutions	2	-	-	-	2	1	-	-	1	1	-	-
	Phthalic Acid	-	-	-	-	-	-	-	2	2	1	2	-
	Picric Acid (Water Solution 38°C)	2	2	2	-	2	1	X	X	1	1	X	X
	Pinene	X	2	-	2	-	1	-	1	1	1	1	1
	Pine Oil	X	2	-	2	X	1	1	1	1	1	1	-
	Piperazine Hydrochloride Solution (34%)	-	2	-	-	-	1	-	-	-	-	-	-
	Pitch	2	1	-	-	2	1	1	-	-	-	-	-
	Plating Solutions (Chrome)	X	X	-	-	-	1	X	-	X	X	-	-
	Plating Solutions (Other)	-	1	-	-	-	1	-	-	-	-	-	-
	Polyester Resin	-	-	-	-	-	-	2	-	-	-	-	-
	Polyurethane Foam (Under 50°C)	-	-	-	-	-	1	-	-	-	-	-	-
	Potassium Acetate	2	2	-	1	2	1	-	2	1	1	X	-
	Potassium Bicarbonate	1	1	-	-	1	1	1	1	2	2	1	-
	Potassium Bisulfite	-	1	-	-	-	1	1	-	-	-	-	-
	Potassium Bromate	-	-	-	-	-	1	-	-	-	-	-	-
	Potassium Bromide	1	1	-	-	1	1	1	X	X	2	X	-
	Potassium Carbonate (Potash)	1	1	1	1	1	1	1	2	1	1	X	X
	Potassium Chlorate	1	1	-	-	-	1	1	2	2	2	2	-
	Potassium Chloride (1% To 5%)	1	1	-	1	-	1	1	1	2	2	X	X
	Potassium Chloride (Boiling)	-	-	-	-	-	1	-	-	2	2	-	X
	Potassium Cyanide	1	1	-	1	-	1	1	2	1	1	X	X
	Potassium Dichromate	1	1	-	1	-	1	2	1	2	2	2	-
	Potassium Ferrocyanide	-	-	-	-	-	1	-	2	1	1	2	-
	Potassium Fluoride	-	-	-	-	-	1	-	-	-	-	-	-
	Potassium Hydroxide	2	2	-	-	-	1	-	1	1	1	-	-

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name <i>Contact your Gates Product Application Engineer for chemicals not listed</i>													
Potassium Hydroxide (5%)		1	1	-	-	-	1	1	2	2	2	X	X
Potassium Hydroxide (27% Boiling)		-	-	-	-	-	1	-	2	2	1	X	X
Potassium Hydroxide (30%, Caustic Potash)		-	-	-	1	-	1	-	-	-	-	-	-
Potassium Hydroxide (50% Boiling)		-	-	-	-	-	1	-	2	2	2	X	X
Potassium Hydroxide (70%)		-	1	-	-	-	1	-	-	-	-	X	X
Potassium Hydroxide (70% Hot)		-	-	-	-	-	1	-	X	-	-	X	X
Potassium Iodide		1	1	-	-	1	1	1	1	2	2	-	-
Potassium Nitrate		1	1	-	1	-	1	1	1	1	2	2	2
Potassium Nitrate (1% To 5%)		1	1	-	-	-	1	-	1	1	1	1	2
Potassium Permanganate		1	2	-	-	-	1	2	1	2	2	2	-
Potassium Permanganate (5%)		1	1	-	-	-	1	1	1	1	1	1	-
Potassium Persulfate		-	-	-	-	-	1	-	-	-	-	-	-
Potassium Phosphate		1	-	-	-	1	1	-	X	2	2	X	-
Potassium Sulfate		1	1	-	1	-	1	1	1	2	2	1	-
Potassium Sulfate - 1% & 5%		1	1	-	-	-	1	1	1	1	1	1	X
Potassium Sulfide		1	1	-	-	-	1	-	2	2	2	-	-
Potassium Sulfite		1	1	-	1	-	1	-	1	1	1	1	-
Potassium Thiosulfate		1	-	-	-	1	1	-	-	-	-	-	-
Primatol A, S, P (Ag Spray)		-	-	-	-	-	1	-	-	-	-	-	-
Propane Gas		X	X	-	-	-	1	-	1	1	1	-	1
Propionic Acid		X	X	-	-	-	1	-	1	-	2	2	-
Propyl Acetate		X	X	-	2	-	1	-	1	-	-	-	-
Propyl Alcohol		1	1	2	1	-	1	1	1	1	1	-	2
Propylene (Liquid Or Gas, Ambient)		X	X	-	1	-	1	2	1	1	1	1	-
Propylene Dichloride		-	-	-	-	-	1	-	1	2	1	X	-
Propylene Glycol		1	1	-	1	1	1	2	1	1	1	-	-
Propylene Oxide		X	X	-	-	-	-	-	2	1	1	2	-
Purina Insecticide		X	X	-	-	-	1	2	1	1	1	1	2
Puopale RX Oils		-	1	-	-	-	1	1	1	1	1	1	1
Pyranol, Transformer Oil		2	1	-	-	-	1	-	1	1	1	1	-
Pydraul		X	X	-	-	-	1	-	-	-	-	-	-
Pydraul 10E, 29E-LT, 30E, 60, 65E, 115E		X	X	-	2	-	1	-	1	1	1	1	1
Pydraul 135		-	X	-	2	-	1	2	1	1	1	-	-
Pydraul 150		X	X	X	2	X	1	2	1	1	1	1	1
Pydraul 280		X	X	X	2	X	1	2	1	1	1	-	-
Pydraul 312		X	X	X	2	-	1	1	1	1	1	-	-
Pydraul 50E		-	-	-	2	-	1	1	1	1	1	-	-
Pydraul 540		X	X	X	2	X	1	X	1	1	1	-	-
Pydraul 625		X	X	X	2	X	1	2	1	1	1	-	-
Pydraul A-200		X	X	X	2	X	1	2	1	1	1	-	-
Pydraul F-9		X	X	X	2	X	1	1	1	1	1	-	-
Pyridine (50%)		X	X	-	-	X	1	-	1	1	1	1	1

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name													
Pyrogard 160, 230, 630		-	-	-	-	-	1	-	1	1	1	-	-
Pyrogard 51, 53, 55		-	X	-	-	-	1	-	1	1	1	-	-
Pyrogard C, D		-	1	-	-	-	1	1	1	1	1	1	1
Q													
Quench Oil		2	2	-	-	-	1	-	-	1	1	1	-
Quintolubric 822		2	1	-	-	-	1	-	1	1	1	1	1
R													
Ramrod (Ag Spray)		-	-	-	-	-	1	1	1	1	1	1	1
Rando Oils		-	1	-	-	-	1	1	1	1	1	1	1
Rape Seed Oil		2	X	-	-	X	1	2	1	1	1	1	1
Red Oil (Comm. Oleic Acid, MIL-H-5606)		2	2	2	1	2	1	1	2	2	1	1	2
Refined Wax (Petroleum)		2	1	2	-	-	1	1	1	1	1	-	1
Regal Oils R&O		-	1	-	-	-	1	1	1	1	1	1	1
Richfield Weed Killer		X	2	-	-	X	1	-	-	-	-	-	-
Round Up		2	2	-	-	-	1	1	2	1	1	1	1
Rubilene Oils		-	1	-	-	-	1	1	-	-	-	-	-
S													
Salicylic Acid		1	X	-	-	-	1	1	1	1	1	2	-
Salt Water (Sea Water)		2	2	2	-	2	1	1	2	1	1	X	2
Santosafe W-G15, W-G20, W-G30		-	1	-	-	-	1	1	1	1	1	1	1
Santo Safe 300		X	X	-	-	-	1	-	1	1	1	1	-
Sevin		-	-	-	-	-	1	1	-	-	-	-	-
Sewage		2	2	2	1	2	1	1	X	1	1	2	1
SFR Fluid B (Shell)		-	X	-	-	-	1	-	-	-	-	-	-
SFR Fluid C (Shell)		-	X	-	-	-	1	-	-	-	-	-	-
Shellac		2	1	-	-	-	1	1	1	1	1	1	-
Shellac (Bleached)		2	1	-	-	-	1	1	1	1	1	1	2
Shellac (Orange)		2	1	-	-	-	1	1	1	1	1	1	2
Silicone Greases		2	2	2	-	2	1	1	1	1	1	1	1
Silicone Oils		2	2	2	-	2	1	1	1	1	1	1	1
Silver Cyanide		1	-	-	-	-	1	-	1	1	1	X	-
Silver Nitrate		1	1	1	1	1	1	1	2	1	1	1	2
Skydrol 500A& 7000		X	X	X	2	X	1	1	1	1	1	1	-
Soap Oil		X	X	-	-	X	1	-	1	1	1	-	-
Soap Solutions		2	1	2	1	1	1	1	1	1	1	1	1
Soda Ash (Sodium Carbonate)		1	1	1	1	1	1	1	1	1	1	X	2
Soda Water		-	-	-	-	-	1	1	-	-	-	-	-
Sodium Acetate		X	X	X	1	X	1	1	1	1	1	1	1
Sodium Benzoate		-	-	-	-	-	1	-	-	-	-	-	-
Sodium Bicarbonate		1	1	1	1	1	1	1	2	1	1	2	2
Sodium Bisulfate (Niter Cake)		1	1	1	1	1	1	1	X	2	1	X	X
Sodium Bisulfite		1	1	1	1	1	1	1	2	1	1	2	-

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- = No Data

[] - Cover stock rating only; Rating for tube stock "X"

Contact your Gates Product Application Engineer
for chemicals not listed

Chemical Name	Hoses							Couplings				
	Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Sodium Borate	1	1	1	1	1	1	1	1	1	1	-	-
Sodium Carbonate	1	1	1	1	1	1	1	2	2	2	X	2
Sodium Chlorate	2	1	-	-	1	1	1	2	2	2	X	-
Sodium Chloride	1	1	1	1	1	1	1	2	2	1	X	X
Sodium Chloride - 2%	1	1	-	-	-	1	1	2	2	1	X	X
Sodium Chloride - 5%	1	1	-	-	-	1	1	-	2	1	X	X
Sodium Chloride - 5% @ 66°C	1	1	-	-	-	1	1	-	2	1	-	X
Sodium Chloride Saturated	1	1	-	-	-	1	1	-	1	1	X	-
Sodium Chloride Saturated (Boiling)	-	-	-	-	-	1	-	-	2	1	X	-
Sodium Chloride Slurry	-	-	-	-	-	1	-	-	-	-	-	-
Sodium Cyanide	1	1	1	1	1	1	1	2	1	1	X	X
Sodium Dichromate	2	1	-	1	2	1	1	-	-	-	-	-
Sodium Ferricyanide	-	-	-	-	-	1	-	2	2	2	-	-
Sodium Ferrocyanide	-	-	-	-	-	1	-	-	-	-	-	-
Sodium Fluoride	-	1	-	-	-	1	-	2	2	2	-	-
Sodium Fluoride (5%)	-	1	-	-	-	1	1	2	2	2	-	-
Sodium Fluoride (70%)	-	-	-	-	-	1	-	-	-	2	-	-
Sodium Hydrosulfide	1	X	-	-	-	1	-	-	-	-	-	-
Sodium Hydrosulfite	-	-	-	-	-	1	-	-	-	-	-	-
Sodium Hydroxide	2	2	-	-	-	1	-	2	-	-	-	X
Sodium Hydroxide (3 Molar)	2	2	-	-	-	1	-	-	-	-	-	X
Sodium Hydroxide (10%)	-	-	-	1	-	1	-	-	-	-	-	-
Sodium Hydroxide (20% Cold)	1	2	-	-	-	1	1	1	1	1	X	X
Sodium Hydroxide (20% Hot)	1	X	-	-	-	1	-	2	1	1	X	X
Sodium Hydroxide (40%)	1	2	2	1	1	1	2	2	1	1	X	X
Sodium Hydroxide (50% Cold)	2	X	X	1	1	1	2	2	2	2	X	X
Sodium Hydroxide (50% Hot)	-	-	-	1	2	1	X	X	2	2	X	X
Sodium Hydroxide (60%)	2	X	X	1	2	1	X	X	2	2	X	X
Sodium Hydroxide (70% Cold)	1	2	-	-	-	1	-	-	-	2	X	X
Sodium Hydroxide (70% Hot)	-	-	-	-	-	1	-	-	-	-	-	-
Sodium Hydroxide (80% Hot)	1	X	-	-	-	1	-	X	X	X	X	X
Sodium Hypochlorite	1	X	-	-	-	1	-	X	X	X	X	-
Sodium Hypochlorite, 5%	-	X	X	1	1	1	1	X	X	2	X	X
Sodium Hypochlorite, 20%	X	X	X	1	1	1	2	X	X	2	X	X
Sodium Hyposulfate	X	-	-	-	-	1	-	X	1	1	X	-
Sodium Metaphosphate	2	2	2	1	2	1	1	X	1	1	1	X
Sodium Nitrate	X	X	-	1	2	1	1	1	2	2	2	2
Sodium Perborate	X	X	-	-	X	1	2	X	1	1	1	X
Sodium Peroxide (Sodium Dioxide)	1	2	1	2	1	1	X	X	1	1	1	X
Sodium Phosphate	X	1	-	1	-	1	1	2	1	1	X	X
Sodium Phosphate (Mono)	1	1	-	-	-	1	-	-	-	-	-	-
Sodium Phosphate (Dibasic)	2	1	-	-	-	1	-	-	-	-	-	-

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name													
	Sodium Phosphate (Tribasic)	2	1	-	-	-	1	-	2	2	2	-	-
	Sodium Silicate	1	1	-	1	1	1	1	1	1	1	-	1
	Sodium Silicate (Hot)	1	1	-	-	-	1	-	2	2	2	X	X
	Sodium Sulfate	1	1	-	1	1	1	1	2	1	1	-	2
	Sodium Sulfide	1	1	-	1	1	1	1	X	X	2	X	X
	Sodium Sulfide, Saturated	1	1	-	-	-	1	1	2	2	1	X	X
	Sodium Sulfite	2	2	2	1	2	1	2	1	1	1	-	X
	Sodium Sulfite, 5%	1	1	-	-	-	1	-	1	1	1	1	-
	Sodium Sulfite, 10% @ 66°C	1	1	-	-	-	1	-	2	2	2	2	-
	Sodium Thiosulfate (HPO, Antichlor)	1	1	1	1	1	1	1	X	1	1	2	X
	Sodium Tripolyphosphate (STPP)	-	-	-	-	-	1	-	-	1	1	X	X
	Solnus Oils	-	1	-	-	-	1	1	1	1	1	1	1
	Sour Crude Oil	-	-	-	-	-	1	-	-	-	-	-	-
	Soybean Oil	2	2	2	-	2	1	1	1	1	1	1	-
	Spent Acid	-	-	-	-	2	1	-	-	1	1	-	-
	Stannic Chloride	X	2	2	1	X	1	X	X	X	X	X	X
	Stannic Chloride, 50%	X	1	-	-	-	1	-	X	X	X	X	-
	Stannous Chloride (Under 66°C)	1	1	-	1	1	1	X	-	X	2	X	-
	Stannous Chloride, 15%	1	1	-	-	-	1	-	X	X	-	X	-
	Starch	2	2	-	-	1	1	1	X	1	1	1	-
	Steam	-	-	-	-	-	-	-	1	1	1	-	2
	Stearic Acid	2	2	2	1	2	1	1	X	2	1	X	X
	Stearin	-	-	-	-	-	1	2	-	-	-	-	-
	Stoddard Solvent	2	2	X	1	-	1	1	2	1	1	1	1
	Styrene (Vinyl Benzene)	X	X	-	-	-	1	1	1	1	1	1	1
	Styrene (Monomer)	-	X	-	2	-	1	2	2	X	2	X	2
	Sucrose Solutions	1	1	1	-	1	1	-	1	1	1	-	-
	Sulfamic Acid (10%, Under 77°C)	-	-	-	1	2	1	-	-	-	-	-	-
	Sulfate Black Liquor	1	1	-	-	-	1	1	2	2	2	X	-
	Sulfate Green Liquor	1	1	-	-	-	1	1	2	2	2	X	-
	Sulfur	-	-	-	-	-	-	-	-	-	-	-	-
	Sulfur (Molten)	X	X	-	-	-	-	-	-	-	-	-	-
	Sulfur Chloride	X	X	X	-	2	1	2	X	X	2	X	X
	Sulfur Dioxide (Moist)	2	X	-	-	2	1	1	-	2	1	1	X
	Sulfur Dioxide (Dry)	X	X	X	-	2	1	X	2	1	1	1	1
	Sulfur Dioxide (Liquid)	2	X	-	-	2	1	-	-	-	-	-	-
	Sulfur Hexafluoride (Gas)	1	2	-	-	2	1	X	-	-	-	-	-
	Sulfur Trioxide (Dry)	X	X	X	X	X	1	1	2	2	2	2	X
	Sulfuric Acid, 85%	X	X	-	-	-	1	-	X	2	1	X	-
	Sulfuric Acid, 3 Molar	X	X	-	-	-	1	-	-	-	-	-	-
	Sulfuric Acid, Aerated, No Velocity	-	-	-	-	-	1	-	2	2	2	X	-
	Sulfuric Acid, Air Free, No Velocity	-	-	-	-	-	1	-	X	X	2	X	-

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Contact your Gates Product Application Engineer for chemicals not listed													
Chemical Name		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
	Sulfuric Acid, Concentrated	X	X	-	-	-	1	-	-	1	1	-	-
	Sulfuric Acid, Fuming, Oleum	X	-	-	-	-	1	-	2	1	1	2	-
	Sulfuric Acid (10%)	1	2	2	1	1	1	X	-	X	X	2	X
	Sulfuric Acid (30%)	1	-	-	1	1	1	X	X	X	2	X	X
	Sulfuric Acid (50%)	2	X	X	1	1	1	X	X	X	2	X	X
	Sulfuric Acid (75%)	X	X	X	-	2	1	X	X	X	2	X	X
	Sulfuric Acid (93%)	X	X	X	-	X	1	X	2	X	2	X	X
	Sulfuric Acid (98%)	X	X	X	X	X	1	X	2	X	2	X	X
	Sulfurous Acid	2	2	-	-	-	1	X	X	X	2	2	-
	Sulfurous Acid (10%)	-	X	-	1	1	1	-	-	X	2	1	X
	Sulfurous Acid (75%)	X	X	X	1	1	1	X	X	X	2	X	X
	Sun R&O Oils	-	1	-	-	-	1	1	1	1	1	1	1
	SunSAFE (Fire Resist. Hydr. Fluid)	2	1	-	-	-	1	1	1	1	1	1	-
	Suntac HPOils	-	1	-	-	-	1	1	1	-	1	1	-
	Suntac WR Oils	-	1	-	-	-	1	1	1	-	1	1	-
	Sunvis Oils 700, 800, 900	-	1	-	-	-	1	1	1	1	1	-	-
	Super Hydraulic Oils (Conoco)	-	1	-	-	-	1	1	1	1	1	1	-
	Sutan Plus, Herbicide	X	X	X	1	-	-	1	1	1	1	1	-
	Sutazine Plus, Herbicide	X	X	-	1	-	-	1	X	1	1	1	-
	Synthetic Oil (Citgo)	-	-	-	-	-	-	1	1	1	1	-	-
	Syrup	2	1	2	-	-	1	1	-	1	1	1	-
T													
	Tall Oil (Under 66°C)	2	2	2	-	X	1	-	2	X	2	X	-
	Tallow	2	2	2	-	-	1	1	2	2	2	1	2
	Tannic Acid (10%)	2	X	-	1	2	1	X	2	1	1	2	X
	Tar And Tar Oil	2	-	-	-	-	1	1	1	1	1	1	2
	Tar (Bituminous, Under 38°C)	2	2	2	X	-	1	-	1	1	1	1	2
	Tartaric Acid	2	2	2	1	1	1	1	X	2	2	2	X
	Tellus Oils	-	1	-	-	-	1	1	1	1	1	1	1
	Tenol Oils	-	1	-	-	-	1	1	1	1	1	-	-
	Tergitol	-	-	-	-	-	1	-	2	1	1	-	2
	Terpineol	X	2	-	1	2	1	2	-	-	-	-	-
	Terresstic	-	1	-	-	-	-	1	1	1	1	-	-
	Tetraethyl Lead	2	2	-	-	-	1	2	-	-	-	-	-
	Tetraethyl Lead Blend	X	2	-	-	-	1	-	-	-	-	-	-
	Tetrahydrofuran (THF)	X	X	-	-	X	1	1	2	-	-	-	-
	Tetralin	X	X	-	-	X	1	2	1	1	1	1	-
	Thiopen	X	X	-	-	-	1	-	-	-	-	-	-
	Titanium Tetrachloride	X	X	X	-	-	1	-	1	2	2	X	X
	Toluene (Toluol)	X	X	X	X	X	1	1	1	1	1	1	1
	Toluene Diisocyanate (Under 66°C)	X	-	-	-	-	1	-	1	1	1	-	-
	Transformer Oil (Askarel Types)	X	X	X	1	X	1	-	1	1	1	1	-

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Contact your Gates Product Application Engineer for chemicals not listed													
Chemical Name													
	Transformer Oil (Petroleum Type)	2	1	2	1	X	1	1	1	1	1	1	1
	Transmission Fluid, Type A	2	1	2	1	2	1	2	1	1	1	1	1
	Tributoxyethyl Phosphate	X	X	X	X	X	1	2	1	-	-	X	-
	Tributyl Phosphate	X	X	X	2	X	1	-	1	-	-	X	-
	Trichloroethylene	X	X	X	2	X	1	2	X	2	1	X	1
	Trichloromonofluoroethane (Freon 17)	-	-	-	-	-	-	-	1	1	1	X	-
	Trichlorotrifluoroethane (Freon 113)	-	-	-	-	-	-	-	1	1	1	X	-
	Tricresyl Phosphate	X	X	X	1	X	1	1	1	2	2	X	-
	Triethanolamine (TEA)	2	2	-	1	2	1	1	1	1	1	1	1
	Tripolyphosphate (STPP)	X	1	-	-	-	1	-	-	2	1	X	-
	Tung Oil	2	2	-	-	2	1	1	1	1	1	1	1
	Turpentine	X	2	-	2	X	1	1	X	1	1	1	2
	Type I Fuel (MIL-S-3136) ASTM Fuel A	2	1	-	-	-	1	-	1	1	1	1	-
	Type II Fuel (MIL-S-3136)	X	2	-	-	-	1	-	1	1	1	1	-
	Type III Fuel (MIL-3136) ASTM Fuel B	X	1	-	-	-	1	-	1	1	1	1	-
U													
	Ucon Hydrolube Types 150CP, 200CP	-	1	-	-	-	1	1	1	1	1	1	1
	Ucon Hydrolube Types 275CP, 300CP, 550CP	-	-	-	-	-	1	-	-	-	-	-	-
	Ucon M1	-	1	-	-	-	1	1	1	1	1	1	1
	Union ATF Dexron	-	1	-	-	-	1	1	1	1	1	-	-
	Union ATF Type F	-	1	-	-	-	1	1	1	1	1	1	1
	Union C-2 Fluid	-	1	-	-	-	1	1	1	1	1	-	-
	Union C-POil	-	1	-	-	-	1	1	1	1	1	1	1
	Union Hydraulic Oil AW	-	1	-	-	-	1	1	1	1	1	1	1
	Union Hydraulic Tractor Fluid	-	1	-	-	-	1	1	1	1	1	1	1
	Urea Solution	1	2	-	1	1	1	1	1	1	1	2	-
V													
	Varnish	X	X	X	-	X	1	1	2	1	1	1	2
	Vegetable Oils	2	1	2	1	-	1	1	1	1	1	1	2
	Vegetable Oil (Hot)	-	-	-	-	-	1	1	2	2	2	1	2
	Versilube	1	1	-	-	-	1	-	1	1	1	1	-
	Versilube F-50, F-44	2	2	2	-	2	1	1	1	1	1	1	1
	Vinegar	2	X	X	2	X	1	1	X	2	1	X	X
	Vinyl Acetate	X	X	X	1	X	1	-	2	1	2	1	2
	Vinyl Chloride (Chloroethylene, Monomer)	X	X	X	X	X	1	-	2	1	1	2	X
	Vitrea Oils	X	X	X	-	-	1	1	1	1	1	-	-
W													
	Water	1	1	1	1	1	1	1	2	1	1	1	1
	Water, Acid Mine	2	X	-	-	-	1	1	X	2	2	X	X
	Water, Brine	2	2	-	-	1	1	1	X	2	2	-	-
	Water Deionized, (Demineralized)	-	-	-	-	-	1	-	-	-	-	-	-
	Water, Distilled	2	1	-	-	1	1	1	X	1	1	1	1

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		Chloroprene	Nitrile	Nitrile/PVC	CPE	Hypalon	Teflon	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminium	Brass
Chemical Name													
	Water, Fresh	1	1	-	-	-	1	1	X	1	1	1	X
	Water In Oil Emulsions	-	-	-	-	-	1	1	-	-	-	-	-
	Water, Potable (FDA Tube Only)	-	-	-	-	-	-	-	-	-	-	-	-
	Water, Salt	2	1	-	-	-	1	1	X	2	2	X	X
	White & Bagley No. 2190 Cutting Oil	2	1	-	-	-	1	-	-	-	-	-	-
	Wines	2	1	1	1	1	1	1	2	2	2	1	-
	Wood Oil	2	1	-	1	2	1	1	1	1	1	1	-
X													
	Xylene	X	1	-	X	-	1	X	2	2	2	-	-
Z													
	Zeric	-	1	-	-	-	1	2	-	-	-	-	-
	Zinc Acetate	2	X	-	-	X	1	2	1	1	1	1	1
	Zinc Chloride Solutions	1	1	1	1	1	1	1	X	2	1	X	X
	Zinc Chromate	-	-	-	1	1	1	-	-	1	1	-	-
	Zinc Hydrate	-	-	-	-	-	1	-	-	-	-	-	-
	Zinc Sulfate Solutions	2	2	2	1	2	1	2	X	2	1	X	X