



CORROSION RESISTANCE CHART

⚠ WARNING


The data on the following pages has been compiled from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

Ratings

Metal
1 = Excellent
2 = Good
3 = Fair
X = Not Recommended
- = Contact Dixon®

Non-Metal
A = Acceptable
X = Not Recommended
- = Contact Dixon®

Gasket/Seal Material
T = PTFE
V = FKM
E = EPDM, EPR
N = Neoprene
B = Buna N

- Ratings given are based at **70°F (21°C)**. Chemical compatibility varies greatly with temperature. For applications at temperatures other than **70°F (21°C)**, contact Dixon® for recommendations at 877.963.4966.
- Gasket / seal materials are not necessarily listed in order of preference.
- Chemical resistance of a material does not necessarily indicate the suitability of a fitting in a given application due to variables such as improper clamp and coupling application, special hose construction, gasket material, etc.
- Special caution should be taken when handling hazardous materials. 

Agent	Material Selection	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Acetate Solvents (Crude)		1	X	X	1	2	2	1	1	A	X	T
Acetate Solvents (Pure)		1	1	1	1	X	1	1	1	A	X	T
Acetic Acid (80%)		3	X	X	1	X	1	1	1	X	X	TEVNB
Acetic Acid (50%)		2	X	X	1	X	2	2	1	X	X	TEVNB
Acetic Acid (20%)		2	X	X	1	X	2	2	1	X	X	TEVNB
Acetic Acid (10%)		2	X	2	1	X	2	1	1	X	X	TEVNB
Acetic Anhydride		2	X	2	1	2	2	2	2	X	X	TNB
Acetone		1	2	2	1	2	1	1	1	A	X	TE
Acetylene		1	X	X	2	2	2	1	1	X	X	TEVNB
Alcohols												
Amyl Alcohol		2	2	2	2	2	1	2	2	A	A	TEVNB
Benzyl Alcohol		2	2	2	2	2	1	1	1	X	A	TVB
Butyl Alcohol		1	2	1	2	2	1	1	1	A	A	TEVN
Diacetone Alcohol		1	1	2	1	2	1	2	2	X	A	TE
Ethyl Alcohol		1	2	2	1	2	2	2	2	X	A	TEVNB
Hexyl Alcohol		-	-	-	1	-	-	-	-	A	-	-
Isobutyl Alcohol		-	-	-	-	-	-	-	-	A	-	-
Isopropyl Alcohol		2	2	2	2	2	2	2	2	A	A	TEVNB
Methyl Alcohol (Methanol)		2	2	2	1	2	2	2	2	A	A	TENB
Octyl Alcohol		-	-	-	-	-	-	-	-	A	-	-
Propyl Alcohol		2	2	2	1	2	2	1	1	X	A	TEVNB
Aluminum												
Aluminum Chloride (Agu.)		X	X	X	1	X	X	X	X	A	A	TEVNB
Aluminum Fluoride (Sat.)		2	-	-	-	X	2	X	2	X	A	TEVNB
Aluminum Nitrate (Sat.)		3	X	-	-	X	-	2	2	A	A	TEVNB

Ratings given are based at **70°F (21°C)**.

Agent	Material Selection	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Aluminum (continued)												
Aluminum Potassium Sulfate (Alum)		2	2	2	2	X	2	X	2	X	A	TEVNB
Aluminum Sulfate (Sat.)		X	X	2	2	X	2	-	2	A	A	TEVNB
Ammonia												
Ammonia Anhydrous		1	X	X	2	1	1	2	1	A	X	TENB
Ammonia Gas		X	X	X	1	1	X	1	1	A	X	TENB
Ammonia Nitrate		-	-	-	-	-	-	-	-	X	-	-
Ammonium												
Ammonium Bifluoride		-	X	-	2	X	2	-	-	X	A	TEVB
Ammonium Carbonate (Sat.)		2	X	X	2	2	2	2	2	A	A	TEVNB
Ammonium Casenate		-	-	-	-	-	-	-	-	A	-	-
Ammonium Chloride (Sat.)		X	X	2	2	X	2	X	X	A	A	TEVNB
Ammonium Hydroxide (Sat.)		2	X	X	2	1	X	2	2	A	A	TEVNB
Ammonium Nitrate		2	X	X	-	X	X	-	-	A	A	TENB
Ammonium Phosphate (10-40%)		X	X	X	-	X	2	1	2	A	A	TEVNB
Ammonium Sulfate (10-40%)		X	X	3	2	X	2	X	2	A	A	TEVNB
Aniline		-	X	2	2	X	2	1	1	X	X	TV
Arsenic Acid		X	X	2	2	X	X	2	2	X	A	TEVNB
Asphalt		-	-	-	-	2	-	-	2	X	X	TV
Barium												
Barium Carbonate (Sat.)		X	2	2	2	2	2	2	2	A	A	TEVNB
Barium Chloride (Sat.)		-	2	2	1	-	2	X	-	A	A	TEVNB
Barium Hydroxide (Sat.)		X	2	X	2	2	1	2	2	A	A	TEVNB
Barium Sulfate		2	2	2	-	X	2	2	2	A	A	TEVNB
Barium Sulfide		X	X	X	-	2	X	2	2	A	A	TEVNB
Beer		1	2	2	1	2	1	1	1	A	A	TEVNB
Benzaldehyde		2	2	2	2	X	2	2	2	X	X	TE
Benzene, Benzol		1	2	2	2	2	2	2	2	A	X	TV
Benzine		-	-	-	-	-	-	-	-	A	X	-
Benzoic Acid		2	2	2	-	X	2	2	2	X	X	TVN
Black Liquor		X	X	X	X	-	2	2	2	X	A	TEVNB
Bleach (12.5% Active Chlorine)		X	-	-	1	X	-	-	X	X	A	TEVN
Borax		X	2	2	1	2	1	1	1	X	A	TEVNB
Boric Acid		1	X	2	1	X	2	-	-	X	A	TEVNB
Brine Acid		-	2	2	1	-	-	-	-	X	A	TEVNB
Bromic acid		X	X	X	-	-	X	-	-	X	A	TEVN
Bromine Liquid		2	-	-	-	-	-	X	X	X	X	TV
Butadiene, Butylene		2	2	2	2	2	1	2	2	X	X	TVNB
Butane		2	2	2	2	1	1	2	2	X	X	TV
Butyl Acetate		1	2	2	2	2	2	2	2	A	X	T
Butyric Acid		2	2	X	1	X	2	2	2	A	A	TV
Calcium												
Calcium Bisulfate		X	-	X	-	X	X	X	2	X	A	T
Calcium Bisulfide		-	-	-	-	-	2	-	2	A	A	TVB
Calcium Bisulfite		X	X	2	2	X	X	-	2	X	A	TVNB
Calcium Bromide		X	2	2	-	X	2	1	X	X	X	T
Calcium Carbonate		X	2	2	2	2	2	1	2	A	A	TEVB
Calcium Chloride (Sat.)		-	2	-	1	2	2	-	-	A	A	TEVNB
Calcium Hydroxide (Sat.)		X	2	X	-	2	2	2	2	A	A	TEVNB
Calcium Hypochlorite (Sat.)		X	X	X	-	X	X	X	2	X	A	TEV
Carbon												
Carbon Bisulfide		1	X	2	2	2	X	2	2	A	X	TV
Carbon Dioxide (Dry)		1	1	2	1	2	1	2	2	A	A	TENB
Carbon Dioxide (Wet)		1	X	-	2	3	-	2	2	X	A	TENB
Carbon Disulfide		1	X	2	2	2	X	2	2	A	X	TV
Carbon Monoxide		1	1	1	1	2	1	1	1	A	A	TEVNB
Carbon Tetrachloride		X	-	1	1	2	1	1	-	A	X	TV
Carbonic Acid		1	2	2	1	2	3	2	2	X	A	TEVNB
Castor Oil		2	2	2	1	2	1	2	2	X	A	TEVNB
Caustic Potash		X	-	-	1	X	-	-	2	A	A	TEVNB
Caustic Soda (see Sodium Hydroxide)												
Cellosolves		2	2	2	2	2	2	2	2	X	A	TE

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Chlorine (Liquid)		-	-	-	1	2	2	-	3	X	X	TV
Chloroform		-	-	-	2	X	1	-	-	X	X	TV
Chlorosulfonic Acid		-	X	X	1	2	2	X	X	X	X	T
Clorox (Bleach, 5.5% CL)		X	-	-	-	X	-	-	2	X	-	TEVB
Chromic Acid (50%)		2	X	X	2	X	X	3	-	X	X	TVNB
Citric Acid		3	X	X	1	X	2	-	-	X	A	TEVNB
Coke Oven Gas		2	3	3	-	2	2	2	2	X	X	TEVN
Copper												
Copper Chloride		X	X	X	2	X	X	X	X	A	A	TEVNB
Copper Cyanide		X	X	X	1	-	X	2	2	X	-	TEVNB
Copper Sulfate		X	X	X	1	X	X	-	2	A	A	TEVNB
Crylic Acid (Conc.)		2	2	X	-	2	3	2	2	X	X	TEV
Cyclohexane		2	2	2	2	2	1	2	2	A	X	TVB
Detergents		2	2	2	1	2	-	1	2	A	A	TEVNB
Dextrose		2	-	-	2	-	2	-	-	A	A	TEVNB
Diesel Fuels		1	1	1	2	2	-	1	1	A	X	TVB
Diethylamine		2	-	X	-	X	1	2	2	X	A	TN
Disodium Phosphate		-	-	-	-	1	-	-	1	A	A	TEV
Ethers		2	2	2	2	2	2	1	1	A	X	TB
Ethyl												
Ethyl Acetate		-	-	2	2	2	2	2	2	A	X	T
Ethyl Chloride		-	-	2	2	2	2	-	1	A	X	TEVB
Ethylene												
Ethylene Chloride		-	-	-	-	2	2	-	-	A	X	TV
Ethylene Dichloride		-	2	X	2	2	1	2	2	A	X	TV
Ethylene Glycol		1	2	2	1	2	2	2	2	A	X	TEVNB
Ethylene Oxide		X	X	X	1	3	2	2	2	X	X	T
Fatty Acids		1	3	3	1	X	2	-	1	A	A	TVNB
Ferric												
Ferric Chloride		X	X	2	2	X	X	X	X	X	A	TEVNB
Ferric Hydroxide		-	-	-	1	-	2	1	1	A	-	TEVNB
Ferric Nitrate (10-50%)		X	X	X	-	X	X	2	2	X	A	TEVNB
Ferric Sulfate		X	X	X	-	X	2	-	-	X	A	TEVNB
Ferrous												
Ferrous Chloride (Sat.)		X	X	2	2	-	X	X	X	X	A	TEVNB
Ferrous Sulfate		2	2	2	2	X	2	2	-	X	A	TEVNB
Fluboric Acid		X	-	-	1	1	2	-	-	X	A	TEVNB
Formaldehyde (50%)		-	2	2	2	X	2	1	1	X	A	TEN
Formic Acid (Anhyd.)		1	X	2	1	X	2	-	-	X	A	TEVN
Freon												
Freon 11		2	2	2	-	X	1	2	2	X	X	TVNB
Freon 12		2	2	2	1	X	2	2	2	X	X	TVNB
Freon 22		2	2	2	2	X	2	2	2	X	X	TN
Fruit Juices		2	2	3	1	X	1	2	2	A	A	TVNB
Fuel Oil		2	2	2	2	2	2	2	2	A	X	TVNB
Furfural		2	2	2	2	2	2	2	2	A	X	TEN
Gasoline												
Refined Gasoline		2	2	2	2	2	2	2	2	A	X	TVNB
Sour Gasoline		X	2	2	2	2	X	2	2	A	X	TVNB
Gelatin		2	2	2	-	X	2	2	2	A	A	TEVNB
Glucose		2	2	2	-	2	2	2	2	A	A	TEVNB
Glue		2	2	2	1	2	2	-	2	-	A	TEVNB
Glycerine		1	1	2	1	2	1	1	1	A	A	TEVNB
Glycols		2	2	2	-	2	2	2	2	A	A	TEVNB
Green Liquor		-	-	-	-	2	-	-	-	-	A	TEVNB
Heptane		2	2	2	1	2	2	2	2	A	X	TVNB
Hexane		2	2	2	1	2	2	1	1	A	X	TVNB
Hydrobromic Acid (50%)		X	X	X	2	X	X	X	X	X	A	TEV
Hydrobromic Acid (20%)		X	X	X	1	X	X	X	X	X	A	TEV
Hydrochloric Acid (20%)		X	X	X	1	X	3	X	X	X	A	TEVNB
Hydrochloric Acid (38%)		X	X	X	1	X	X	X	X	X	A	TEVN
Hydrocyanic Acid		2	X	X	2	2	2	2	2	X	A	TEVN

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Hydrofluosilicic Acid (10-50%)		X	2	X	2	X	2	X	2	X	-	TEVNB
Hydrogen												
Hydrogen Peroxide (50%)		-	X	X	2	X	2	-	-	X	A	TEV
Hydrogen Sulfide (Aqu.)		-	-	-	2	-	2	X	2	X	A	TE
Hydrogen Chloride (Dry Gas)		X	2	-	1	2	1	-	-	X	A	TEVN
Hydrogen Gas		1	1	1	1	-	1	1	1	X	A	TEVNB
Hypochlorous Acid		X	X	X	2	X	X	X	X	X	X	TEV
Iodine		1	X	X	-	X	1	X	X	X	A	TEV
Isopropyl Ether		-	2	2	-	-	2	1	2	A	X	T
Jet Fuel (JP4, JP5)		2	1	2	1	2	2	2	2	X	X	TV
Kerosene		2	2	2	2	2	2	2	2	X	X	TVNB
Ketones		2	2	2	1	2	2	2	2	A	X	T
Lactic Acid (25%)		3	2	2	1	X	X	-	-	A	A	TEVN
Lactic Acid (80%)		2	2	X	2	X	-	-	-	A	A	TEVN
Lard Oil		2	-	2	1	3	2	2	2	A	A	TVB
Lead												
Lead Acetate		X	X	X	2	X	2	2	2	X	A	TENB
Lead Chloride		X	-	-	2	-	-	2	2	X	-	TVNB
Lead Sulfate		X	-	-	2	X	2	2	2	X	-	TEVNB
Lime Sulphur		X	X	X	-	X	2	2	2	X	A	TEVN
Linoleic Acid		2	X	3	2	X	2	2	2	X	A	TVB
Linseed Oil		2	2	2	2	2	2	2	2	A	A	TVNB
Lubricants (Oil)		2	1	-	-	2	2	2	2	A	X	TVNB
Magnesium												
Magnesium Carbonate		2	-	-	-	-	2	2	2	X	A	TEVNB
Magnesium Chloride		X	X	2	1	-	-	-	-	X	A	TEVNB
Magnesium Hydroxide		2	2	2	1	2	2	1	1	X	A	TEVNB
Magnesium Nitrate		2	2	2	1	2	2	2	2	X	A	TEVNB
Magnesium Oxide		-	-	-	-	-	-	-	-	X	-	-
Magnesium Sulfate		2	-	2	-	-	1	2	2	X	A	TEVNB
Maleic Acid		-	2	3	2	X	-	-	2	X	A	TEV
Mercuric												
Mercuric Chloride		X	X	X	-	X	X	X	-	X	A	TEVB
Mercuric Cyanide		X	X	X	2	X	2	2	2	X	A	TEVB
Mercury		X	X	X	1	2	-	1	1	A	A	TEVNB
Methane		1	1	2	1	2	1	1	1	A	X	TEVNB
Methanol		2	2	2	1	2	2	2	2	A	A	TENB
Methyl												
Methyl Bromide		X	-	-	-	2	-	2	2	X	X	TV
Methyl Ethyl Ketone		2	2	2	2	2	2	2	2	A	X	TE
Methyl Isobutyl Ketone		2	2	2	2	2	2	2	2	A	X	T
Methyl Methacrylate		2	-	-	-	X	-	2	2	X	A	T
Methylene Chloride		-	2	2	X	2	-	-	-	A	X	T
Milk		1	X	X	1	2	X	1	1	A	A	TEVNB
Mineral Oil		2	1	-	-	2	1	1	2	A	A	TVNB
Muriatic Acid		X	-	-	1	-	X	X	X	X	A	TV
Napthalene		2	2	2	2	2	2	1	1	A	A	TV
Naptha		2	2	2	2	2	2	2	2	A	X	TVB
Nickel												
Nickel Chloride		X	X	X	-	X	2	-	-	X	A	TEVNB
Nickel Sulfate		X	X	-	2	-	-	2	2	X	A	TEVNB
Nitric												
Nitric Acid (100%)		1	X	X	2	X	X	2	-	X	X	TV
Nitric Acid (50%)		X	X	X	1	X	X	2	-	X	X	TV
Nitric Acid (30%)		X	X	X	1	X	X	1	-	X	X	TV
Nitrobenzene		1	2	2	-	2	2	2	2	A	A	T
Oils												
Castor Oil		2	2	2	1	2	1	2	2	A	A	TEVNB
Coconut Oil		2	-	2	-	3	2	2	2	A	A	TVB
Corn Oil		2	2	2	-	2	2	-	2	A	A	TVNB
Cotton Seed Oil		2	2	2	-	2	1	2	2	A	A	TVNB
Fuel Oil		2	2	2	2	2	2	2	2	A	X	TVNB

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Oils (continued)												
Linseed Oil		2	2	2	2	2	2	2	2	A	A	TVNB
Mineral Oil		2	1	-	-	2	1	1	2	A	A	TVNB
Silicon Oil		2	1	2	-	2	-	2	2	A	A	TEVB
Vegetable Oil		2	2	2	1	2	1	1	1	A	X	TVNB
Oleic Acid		2	3	2	2	2	1	-	1	A	X	TB
Oleum		2	X	X	-	2	X	2	2	X	X	TV
Oxalic Acid (Sat.)		2	-	2	2	X	2	X	X	X	A	TEV
Oxygen		2	2	2	-	2	2	2	2	X	X	TEVNB
Palmitic Acid (Sat.)		2	3	2	-	3	2	2	2	X	A	TVB
Paraffin		2	2	2	2	2	2	2	2	A	A	TVNB
Perchloroethylene		2	2	2	2	2	1	-	-	X	X	TV
Petrolatum		2	-	2	-	3	2	2	2	A	-	TVNB
Phenol (Carbolic Acid)		1	1	X	1	2	1	-	1	X	X	TV
Phosphoric Acid												
Phosphoric Acid (25-50%)		X	X	2	1	X	X	-	-	X	A	TEVN
Phosphoric Acid (50-85%)		X	X	X	1	X	3	-	-	X	A	TEV
Photographic Solutions												
Phthalic Anhydride		-	2	2	1	2	1	1	1	X	X	TEV
Picric Acid		1	X	X	2	X	X	2	2	X	-	TEVNB
Plating Solutions												
Brass Plating Solution		-	-	-	1	-	-	-	2	X	A	TEVNB
Cadmium Plating Solution		-	-	-	1	-	-	-	2	X	A	TEVNB
Chrome 40% Plating Solution		X	2	2	1	X	X	2	2	X	A	TEVN
Copper (Cyanide) Plating Solution		-	-	-	1	-	-	-	-	X	A	TEVNB
Gold Plating Solution		-	-	-	1	-	-	-	1	X	A	TEVNB
Iron Plating Solution		-	-	-	-	-	-	-	-	X	A	TEVB
Lead Plating Solution		-	-	-	-	-	-	1	1	X	A	TEVNB
Nickel Plating Solution		-	-	-	1	-	-	1	1	X	A	TEVNB
Silver Plating Solution		-	-	-	1	-	-	1	1	X	A	TEVNB
Tin Plating Solution		-	-	-	1	-	-	-	3	X	A	TEVNB
Zinc Plating Solution		-	-	-	1	-	-	-	-	X	A	TEVNB
Potassium												
Potassium Acetate		X	X	X	-	2	-	-	-	A	A	TEVB
Potassium Bicarbonate (30%)		X	2	-	2	2	2	1	1	A	A	TEVNB
Potassium Carbonate (50%)		X	2	X	2	2	2	1	1	A	A	TEVNB
Potassium Chlorate (30%)		2	X	X	-	2	2	2	1	X	A	TEVNB
Potassium Chloride (30%)		X	X	2	-	2	1	-	-	A	A	TEVNB
Potassium Chromate (30%)		2	2	2	2	-	2	2	2	X	A	TEVB
Potassium Cyanide Solution (30%)		X	X	X	2	2	2	2	2	X	A	TEVNB
Potassium Dichromate (30%)		1	2	2	2	2	2	1	1	X	A	TEVB
Potassium Hydroxide (90%)		X	X	X	2	-	2	X	-	X	A	TENB
Potassium Nitrate (80%)		1	2	2	2	2	2	2	2	X	A	TEVNB
Potassium Permanganate (20%)		2	2	2	1	2	2	2	2	X	A	TEVN
Potassium Sulfate (10%)		1	2	2	1	2	1	1	1	A	A	TEVNB
Propane		1	1	1	2	2	1	2	2	X	X	TVB
Propylene Glycol		2	2	2	2	2	2	2	2	A	A	TVNB
Propylene Oxide (90%)		-	-	-	-	-	-	1	1	X	X	TE
Pyridine		2	2	2	-	2	2	2	2	A	X	T
Pyrogalllic Acid		2	2	2	2	2	2	2	2	X	X	TVNB
Silver Nitrate		X	X	X	-	X	X	2	1	X	A	TEVNB
Soap Solutions		2	2	2	1	2	2	2	2	A	A	TEVNB
Sodium												
Sodium Acetate		1	2	2	-	X	2	2	2	A	A	TEN
Sodium Bicarbonate (20%)		2	2	2	1	3	1	1	1	A	A	TEVNB
Sodium Bisulfate		X	-	2	2	2	-	-	-	A	A	TEVNB
Sodium Bisulfite		X	2	X	2	X	-	-	-	A	A	TEVNB
Sodium Borate		2	2	2	2	3	2	2	2	A	A	TEVNB
Sodium Perborate (10%)		2	X	2	2	2	2	2	2	X	A	TEVNB
Sodium Carbonate		X	2	-	2	2	1	-	2	A	A	TEVNB
Sodium Chlorate (50%)		2	2	2	1	X	1	2	2	X	A	TEVNB
Sodium Cyanide		X	X	X	2	2	X	-	-	A	A	TEVNB

Agent	Material Selection	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Sodium (continued)												
Sodium Dichromate		2	X	X	1	2	-	2	2	X	A	TE
Sodium Hydroxide (70%)		X	X	X	1	3	1	2	2	X	A	TENB
Sodium Hydroxide (50%)		X	X	3	1	3	1	1	-	X	A	TENB
Sodium Hydroxide (30%)		X	2	3	2	2	1	1	1	X	A	TENB
Sodium Chloride (30%)		X	2	2	2	2	1	-	-	X	A	TEVNB
Sodium Hypochlorite		X	X	X	-	X	X	-	-	X	A	TEV
Sodium Metaphosphate		X	X	2	-	X	2	2	2	X	X	TEVNB
Sodium Nitrate (40%)		1	2	-	-	2	2	1	1	A	A	TENB
Sodium Perborate (10%)		2	X	2	2	2	2	2	2	X	A	TEVNB
Sodium Peroxide (10%)		2	X	X	2	2	2	2	2	X	A	TEVNB
Sodium Silicate		1	2	2	2	2	2	2	2	A	A	TEVNB
Sodium Sulfate		-	2	2	2	2	-	-	1	A	A	TEVNB
Sodium Sulfide (50%)		X	X	X	2	2	2	-	2	X	A	TEVNB
Sodium Thiosulphate		2	X	X	2	X	2	2	2	A	A	TEVNB
Stannic Chloride		X	X	X	-	X	X	X	X	X	A	TEVNB
Stannous Chloride		X	X	X	2	X	-	X	-	X	X	TEVNB
Steam		-	-	-	-	-	-	-	-	X	-	-
Stearic Acid		2	3	2	1	3	3	2	1	A	A	TVNB
Stoddard's Solvent		2	2	2	1	2	2	2	2	X	A	TVB
Sugar Liquors (Cane)		1	2	1	-	2	2	2	2	A	A	TEVNB
Sugar Liquors (Beet)		1	2	1	-	2	1	1	1	A	A	TEVNB
Sulfate Liquors		2	X	X	2	3	2	-	2	X	A	TVNB
Sulfite Liquors		X	X	-	1	X	X	2	2	X	X	TVNB
Sulfur Chloride		X	-	X	2	X	X	-	-	X	X	TV
Sulfur Dioxide (Dry)		2	2	2	2	1	2	-	2	X	A	TE
Sulfur Trioxide		2	2	X	2	2	2	-	2	X	X	TEV
Sulfuric Acid (TO 10%)		X	2	X	1	X	X	X	X	X	A	TEVNB
Sulfuric Acid (100%)		X	X	X	1	2	X	-	-	X	X	TV
Sulfurous Acid		2	2	X	-	X	X	X	-	X	A	TV
Tannic Acid		X	-	X	-	X	2	2	2	X	A	TEVNB
Tanning Liquors		1	-	2	1	-	-	1	1	X	A	TVNB
Tartaric Acid		-	-	2	2	-	-	1	1	A	A	TVNB
Titanium Tetrachloride		X	X	X	2	2	2	-	2	X	X	TV
Toluene		1	1	1	1	1	1	1	1	A	X	TVB
Tetrahydrofuran		X	-	2	1	1	-	1	2	A	X	T
Tomato Juice		2	-	3	2	3	2	2	2	X	A	TEVNB
Trichloroethylene		1	-	2	1	2	-	-	-	A	X	TV
Triethanolamine		2	X	2	2	2	2	2	2	A	X	TEVN
Triethylamine		-	-	-	-	-	2	2	2	A	X	TVB
Trisodium Phosphate (10%)		X	2	-	1	2	2	1	1	A	A	TVNB
Turpentine		2	X	2	2	2	1	1	1	X	X	TVB
Urea (50%)		2	-	2	-	2	2	2	2	A	A	TEVNB
Urine		-	-	-	-	2	-	1	1	X	A	TEVNB
Vinegar		X	X	2	2	2	2	2	2	X	A	TEVN
Water Acid (Mine)		X	X	X	1	X	-	-	-	X	A	TEVNB
Water (Distilled)		X	2	2	1	X	X	2	2	A	A	TEVNB
Water (Sea)		2	2	2	1	X	2	2	2	A	A	TEVNB
Whiskey		X	2	2	1	2	2	1	1	X	A	TEVNB
White Liquor (Pulp)		2	-	X	2	X	X	2	2	X	A	TEVNB
Wine		X	2	2	1	X	2	1	1	X	A	TEVNB
Xylene		2	2	2	1	2	2	2	2	A	X	TV
Zinc												
Zinc Chloride		X	X	X	2	X	-	X	2	A	A	TEVNB
Zinc Nitrate		-	-	-	-	-	-	2	2	X	A	TEVNB
Zinc Sulfate (50%)		X	2	2	2	X	2	1	1	X	A	TEVNB

Ratings given are based at 70°F (21°C).