



Corrosion Resistance of Coupling Material

Ratings

Metal:

- E Excellent
- G Good
- F Fair
- X Not Recommended

Non-Metal:

- A Acceptable
- X Not Recommended

Gasket/Seal Material:

- T PTFE
- V FKM
- E E.P.D.M., E.P.R.
- N Neoprene
- B Buna N

Caution

The data below was compiled from various sources and serves as a general guideline and should not be solely relied upon without consulting and following the specific recommendation from the manufacturer.

Note:

Chemical compatibility shall varies greatly with temperature. The data given are based on 21°C. For temperatures other than 21°C. Contact Wah Joo Seng for further recommendations.

The gasket in the data are not listed in order of preference

Other variable such as wrong clamp and coupling, improper hose construction and gasket material shall contribute as factors that determine chemical resistance.

Media	Aluminum	Bronze	Brass	Hastelloy, C-276	Monel	Malleable Iron Carbon Steel	Stainless Steel 316	Stainless Steel 304	Nylon	Polypropylene	Seal Material
Acetic Acid (80%)	F	X	X	E	E	E	E	E	X	X	TEVNB
Acetic Acid (50%)	G	X	X	E	G	E	E	G	X	X	TEVNB
Acetic Acid (20%)	G	X	X	E	G	E	E	G	X	X	TEVNB
Acetic Acid (10%)	G	G	X	E	G	E	E	E	X	X	TEVNB
Acetate Solvents (Crude)	E	X	X	E	G	E	E	E	A	X	T
Acetate Solvents (Pure)	E	E	E	E	E	E	E	E	A	X	T
Acetone	E	G	G	E	E	E	E	E	A	X	TE
Acetic Anhydride	G	G	X	E	G	E	G	G	X	X	TNB
Acetylene	E	X	X	G	G	G	E	E	X	X	TEVNB
Alcohol											
• Amyl Alcohol	G	G	G	G	E	G	G	G	A	A	TEVNB
• Hexyl Alcohol	-	-	-	E	-	E	-	-	A	-	-
• Isobutyl Alcohol	-	-	-	-	-	-	-	-	A	-	-
• Isopropyl Alcohol	G	G	G	G	G	G	G	G	A	A	TEVNB
• Benzyl Alcohol	G	G	G	G	E	G	E	E	X	A	TVB
• Butyl Alcohol	E	E	G	G	E	G	E	E	A	A	TEVN
• Diacetone Alcohol	E	G	E	E	E	E	G	G	X	A	TE
• Ethyl Alcohol	E	G	G	E	G	E	G	G	X	A	TEVNB
• Methyl Alcohol (Methanol)	G	G	G	E	G	E	G	G	A	A	TENB
• Octyl Alcohol	-	-	-	-	-	-	-	-	A	-	-
• Propyl Alcohol	G	G	G	E	G	E	E	E	X	A	TEVNB
Aluminum											
• Aluminum Chloride (Aqu.)	X	X	X	E	X	E	X	X	A	A	TEVNB
• Aluminum Fluoride (Sat.)	G	-	-	-	G	-	G	X	X	A	TEVNB
• Aluminum Nitrate (Sat.)	F	-	X	-	-	-	G	G	A	A	TEVNB
• Aluminum Potassium Sulfate	G	G	G	G	G	G	G	X	X	A	TEVNB
• Aluminum Sulfate (Sat.)	X	G	X	G	G	G	G	-	A	A	TEVNB
Ammonia											
• Ammonia Anhydrous (not plated)	E	X	X	G	E	G	E	G	A	X	TENB
• Ammonia Gas	X	X	X	E	X	E	E	E	A	X	TENB



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• Ammonia Nitrate	-	-	-	-	-	-	-	-	X	-	-
Ammonium											
• Ammonium Bifluoride	-	-	X	G	G	G	-	-	X	A	TEVB
• Ammonium Hydroxide (Sat.)	G	X	X	G	X	G	G	G	A	A	TEVNB
• Ammonium Nitrate	G	X	X	-	X	-	-	-	A	A	TENB
• Ammonium Phosphate (10-40%)	X	X	X	-	G	-	G	E	A	A	TEVNB
• Ammonium Sulfate (10-40%)	X	F	X	G	G	G	G	X	A	A	TEVNB
• Ammonium Carbonate (Sat.)	G	X	X	G	G	G	G	G	A	A	TEVNB
• Ammonium Casenate	-	-	-	-	-	-	-	-	A	-	-
• Ammonium Chloride (Sat.)	X	G	X	G	G	G	X	X	A	A	TEVNB
Aniline	-	G	X	G	G	G	E	E	X	X	TV
Arsenic Acid	X	G	X	G	X	G	G	G	X	A	TEVNB
Asphalt	-	-	-	-	-	-	G	-	X	X	TV
Barium											
• Barium Chloride (Sat.)	-	G	G	E	G	E	-	X	A	A	TEVNB
• Barium Hydroxide (Sat.)	X	X	G	G	E	G	G	G	A	A	TEVNB
• Barium Carbonate (Sat.)	X	G	G	G	G	G	G	G	A	A	TEVNB
• Barium Sulfate	G	G	G	-	G	-	G	G	A	A	TEVNB
• Barium Sulfide	X	X	X	-	X	-	G	G	A	A	TEVNB
Beer	E	G	G	E	E	E	E	E	A	A	TEVNB
Benzene	-	-	-	-	-	-	-	-	A	X	-
Benzoic Acid	G	G	G	-	G	-	G	G	X	X	TVN
Black Liquor	X	X	X	X	G	X	G	G	X	A	TEVNB
Benzaldehyde	G	G	G	G	G	G	G	G	X	X	TE
Benzene, Benzol	E	G	G	G	G	G	G	G	A	X	TV
Brine Acid	-	G	G	E	-	E	-	-	X	A	TEVNB
Bromic Acid	X	X	X	-	X	-	-	-	A	A	TEVN
Bromine Liquid	G	-	-	-	-	-	X	X	X	X	TV
Bleach (12.5% Active Chlorine)	X	-	-	E	-	E	X	-	X	A	TEVN
Borax	X	G	G	E	E	E	E	E	X	A	TEVNB
Boric Acid	E	G	X	E	G	E	-	-	X	A	TEVNB
Butadiene, Butylene	G	G	G	G	E	G	G	G	X	X	TVNB
Butane	G	G	G	G	E	G	G	G	X	X	TV
Butyl Acetate	E	G	G	G	G	G	G	G	A	X	T
Butyric Acid	G	X	G	E	G	E	G	G	A	A	TV
Calcium											
• Calcium Bromide	X	G	G	-	G	X	X	E	X	X	T
• Calcium Carbonate	X	G	G	G	G	G	G	E	A	A	TEVB
• Calcium Chloride (Sat.)	-	-	G	E	G	G	-	-	A	A	TEVNB
• Calcium Hydroxide (Sat.)	X	X	G	-	G	G	G	G	A	A	TEVNB
• Calcium Bisulfate	X	X	-	-	X	X	G	X	X	A	T
• Calcium Bisulfide	-	-	-	-	G	-	G	-	A	A	TVB
• Calcium Bisulfite	X	G	X	G	X	X	G	-	X	A	TVNB
• Calcium Hypochlorite (Sat.)	X	X	X	-	X	X	G	X	X	Q	TEV
Carbon											
• Carbon Dioxide (Wet)	E	-	X	G	-	F	G	G	X	A	TENB
• Carbon Disulfide	E	G	X	G	X	G	G	G	A	X	TV
• Carbon Bisulfide	E	G	X	G	X	G	G	G	A	X	TV
• Carbon Dioxide (Dry)	E	G	E	E	E	G	G	G	A	A	TENB
• Carbon Monoxide	E	E	E	E	E	G	E	E	A	A	TEVNB



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Media	Aluminum	Bronze	Brass	Hastelloy, C-276	Monel	Malleable Iron Carbon Steel	Stainless Steel 316	Stainless Steel 304	Nylon	Polypropylene	Seal Material
• Carbon Tetrachloride	X	E	-	E	E	G	-	E	A	X	TV
Carbonic Acid	E	G	G	E	F	G	G	G	X	A	TEVNB
Castor Oil	G	G	G	E	E	G	G	G	X	A	TEVNB
Caustic Potash	X	-	-	E	-	X	G	-	A	A	TEVNB
Caustic Soda (Look at Sodium Hydroxide)											
Chlorine (Liquid)	-	-	-	E	G	G	F	-	X	X	TV
Chloroform	-	-	-	G	E	X	-	-	X	X	TV
Chlorosulfonic Acid	-	X	X	E	G	G	X	X	X	X	T
Cellosolves	G	G	G	G	G	G	G	G	X	A	TE
Clorox (Bleach, 5.5% Cl)	X	-	-	-	-	X	G	-	X	-	TEVB
Chromic Acid (50%)	G	X	X	G	X	X	-	F	X	X	TVNB
Citric Acid	F	X	X	E	G	X	-	-	X	A	TEVNB
Coke Oven Gas	G	F	F	-	G	G	G	G	X	X	TEVN
Copper											
• Copper Chloride	X	X	X	G	X	X	X	X	A	A	TEVNB
• Copper Cyanide	X	X	X	E	X	-	G	G	X	-	TEVNB
• Copper Sulfate	X	X	X	E	X	X	G	-	A	A	TEVNB
Crylic Acid (Conc.)	G	X	G	-	F	G	G	G	X	X	TEV
Cyclohexane	G	G	G	G	E	G	G	G	A	X	TVB
Detergents	G	G	G	E	-	G	G	E	A	A	TEVNB
Disodium Phosphate	-	-	-	-	-	E	E	-	A	A	TEV
Dextrose	G	-	-	G	G	-	-	-	A	A	TEVNB
Diesel Fuels	E	E	E	G	-	G	E	E	A	X	TVB
Diethylamine	G	X	-	-	E	X	G	G	X	A	TN
Ethers	G	G	G	G	G	G	E	E	A	X	TB
Ethyl											
• Ethyl Acetate	-	G	-	G	G	G	G	G	A	X	T
• Ethyl Chloride	-	G	-	G	G	G	E	-	A	X	TEVB
Ethylene											
• Ethylene Dichloride	-	X	G	G	E	G	G	G	A	X	TV
• Ethylene Glycol	E	G	G	E	G	G	G	G	A	X	TEVNB
• Ethylene Chloride	-	-	-	-	G	G	-	-	A	X	TV
• Ethylene Oxide	E	X	X	E	G	G	G	G	X	X	T
Fatty Acids	E	F	F	E	G	X	E	-	A	A	TVNB
Ferric											
• Ferric Chloride	X	G	X	G	X	X	X	X	X	A	TEVNB
• Ferric Hydroxide	-	-	-	E	G	-	E	E	A	-	TEVNB
Ferrous											
• Ferrous Chloride (Sat.)	X	G	X	G	X	-	X	X	X	A	TEVNB
• Ferrous Sulfate	G	G	G	G	G	X	-	G	X	A	TEVNB
Fluboric Acid	X	-	-	E	G	E	-	-	X	A	TEVNB
Formaldehyde (50%)	-	G	G	G	G	X	E	E	X	A	TEN
Formic Acid (Anhyd.)	E	G	X	E	G	X	-	-	X	A	TEVN
Freon											
• Freon 11	G	G	G	-	E	X	G	G	X	X	TVNB
• Freon 12	G	G	G	E	G	X	G	G	X	X	TVNB
• Freon 22	G	G	G	G	G	X	G	G	X	X	TN
Fruit Juices	G	F	G	E	E	X	G	G	A	A	TVNB
Fuel Oil	G	G	G	G	G	G	G	G	A	X	TVNB
Furfural	G	G	G	G	G	G	G	G	A	X	TEN



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Media	Aluminum	Bronze	Brass	Hastelloy, C-276	Monel	Malleable Iron Carbon Steel	Stainless Steel 316	Stainless Steel 304	Nylon	Polypropylene	Seal Material
Gasoline											
• Refined Gasoline	G	G	G	G	G	G	G	G	A	X	TVNB
• Sour Gasoline	X	G	G	G	X	G	G	G	A	X	TVNB
Glucose	G	G	G	-	G	G	G	G	A	A	TEVNB
Glue	G	G	G	E	G	G	G	-	-	A	TEVNB
Gelatin	G	G	G	-	G	X	G	G	A	A	TEVNB
Glycerine	E	G	E	E	E	G	E	E	A	A	TEVNB
Glycols	G	G	G	-	G	G	G	G	A	A	TEVNB
Green Liquor	-	-	-	-	-	G	-	-	-	A	TEVNB
Hydrobromic Acid (50%)	X	X	X	G	X	X	X	X	X	A	TEV
Hydrobromic Acid (20%)	X	X	X	E	X	X	X	X	X	A	TEV
Hydrochloric Acid (20%)	X	X	X	E	F	X	X	X	X	A	TEVNB
Hydrochloric Acid (38%)	X	X	X	E	X	X	X	X	X	A	TEVN
Hexane	G	G	G	E	G	G	E	E	A	X	TVNB
Heptane	G	G	G	E	G	G	G	G	A	X	TVNB
Hydrocyanic Acid	G	X	X	G	G	G	G	G	X	A	TEVNs
Hydrofluosilicic Acid (10-50%)	X	X	G	G	G	X	G	X	X	-	TEVNB
Hydrogen											
• Hydrogen Peroxide (50%)	-	X	X	G	G	X	-	-	X	A	TEV
• Hydrogen Sulfide (Aqu.)	-	-	-	G	G	-	G	X	X	A	TE
• Hydrogen Chloride (Dry Gas)	X	-	G	E	E	G	-	-	X	A	TEVN
• Hydrogen Gas	E	E	E	E	E	-	E	E	X	A	TEVNB
Hypochlorous Acid	X	X	X	G	X	X	X	X	X	X	TEV
Isopropyl Ether	-	G	G	-	G	-	G	E	A	X	T
Iodine	E	X	X	-	E	X	X	X	X	A	TEV
Jet Fuel (JP4, JP5)	G	G	E	E	G	G	G	G	X	X	TV
Kerosene	G	G	G	G	G	G	G	G	X	X	TVNB
Ketones	G	G	G	E	G	G	G	G	A	X	T
Lard Oil	G	G	-	E	G	F	G	G	A	A	TVB
Lactic Acid (25%)	F	G	G	E	X	X	-	-	A	A	TEVN
Lactic Acid (80%)	G	X	G	G	-	X	-	-	A	A	TEVN
Lead											
• Lead Acetate	X	X	X	G	G	X	G	G	X	A	TENB
• Lead Chloride	X	-	-	G	-	-	G	G	X	-	TVNB
• Lead Sulfate	X	-	-	G	G	X	G	G	X	-	TEVNB
Linoleic Acid	G	F	X	G	G	X	G	G	X	A	TVB
Lime Sulphur	X	X	X	-	G	X	G	G	X	A	TEVN
Linseed Oil	G	G	G	G	G	G	G	G	A	A	TVNB
Lubricants (Oil)	G	-	E	-	G	G	G	G	A	X	TVNB
Magnesium											
• Magnesium Carbonate	G	-	-	-	G	-	G	G	X	A	TEVNB
• Magnesium Chloride	X	G	X	E	-	-	-	-	X	A	TEVNB
• Magnesium Hydroxide	G	G	G	E	G	G	E	E	X	A	TEVNB
• Magnesium Nitrate	G	G	G	E	G	G	G	G	X	A	TEVNB
• Magnesium Oxide	-	-	-	-	-	-	-	-	X	-	-
• Magnesium Sulfate	G	G	-	-	E	-	G	G	X	A	TEVNB
Maleic Acid	-	F	G	G	-	X	G	-	X	A	TEV
Mercuric											
• Mercuric Chloride	X	X	X	-	X	X	-	X	X	A	TEVB
• Mercuric Cyanide	X	X	X	G	G	X	G	G	X	A	TEVB



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Mercury	X	X	X	E	-	G	E	E	A	A	TEVNB
Methane	E	G	E	E	E	G	E	E	A	X	TEVNB
Methanol	G	G	G	E	G	G	G	G	A	A	TENB
Methyl											
• Methyl Bromide	X	-	-	-	-	G	G	G	X	X	TV
• Methyl Ethyl Ketone	G	G	G	G	G	G	G	G	A	X	TE
• Methyl Isobutyl Ketone	G	G	G	G	G	G	G	G	A	X	T
• Methyl Methacrylate	G	-	-	-	-	X	G	G	X	A	T
Methylene Chloride	-	G	G	X	-	G	-	-	A	X	T
Milk	E	X	X	E	X	G	E	E	A	A	TEVNB
Mineral Oil	G	-	E	-	E	G	G	E	A	A	TVNB
Muriatic Acid	X	-	-	E	X	-	X	X	X	A	TV
Napthalene	G	G	G	G	G	G	E	E	A	A	TV
Naptha	G	G	G	G	G	G	G	G	A	X	TVB
Nickel											
• Nickel Chloride	X	X	X	-	G	X	-	-	X	A	TEVNB
• Nickel Sulfate	X	-	X	G	-	-	G	G	X	A	TEVNB
Nitric											
• Nitric Acid (100%)	E	X	X	G	X	X	-	G	X	X	TV
• Nitric Acid (50%)	X	X	X	E	X	X	-	G	X	X	TV
• Nitric Acid (30%)	X	X	X	E	X	X	-	E	X	X	TV
Nitrobenzene	E	G	G	-	G	G	G	G	A	A	T
Oils											
• Castor Oil	G	G	G	E	E	G	G	G	A	A	TEVNB
• Coconut Oil	G	G	-	-	G	F	G	G	A	A	TVB
• Corn Oil	G	G	G	-	G	G	G	-	A	A	TVNB
• Mineral Oil	G	-	E	-	E	G	G	E	A	A	TVNB
• Silicon Oil	G	G	E	-	-	G	G	G	A	A	TEVB
• Cotton Seed Oil	G	G	G	-	E	G	G	G	A	A	TVNB
• Fuel Oil	G	G	G	G	G	G	G	G	A	X	TVNB
• Linseed Oil	G	G	G	G	G	G	G	G	A	A	TVNB
• Vegetable Oil	G	G	G	E	E	G	E	E	A	X	TVNB
Oleic Acid	G	G	F	G	E	G	E	-	A	X	TB
Petrolatum	G	G	-	-	G	F	G	G	A	-	TVNB
Oleum	G	X	X	-	X	G	G	G	X	X	TV
Oxalic Acid (Sat.)	G	F	-	F	G	X	X	X	X	A	TEV
Oxygen	G	G	G	-	G	G	G	G	X	X	TEVNB
Paraffin	G	G	G	G	G	G	G	G	A	A	TVNB
Perchloroethylene	G	G	G	G	E	G	-	-	X	X	TV
Phenol (Carbolic Acid)	E	X	E	E	E	G	E	-	X	X	TV
Palmitic Acid (Sat.)	G	G	F	-	G	F	G	G	X	A	TVB
Phosphoric Acid											
• Phosphoric Acid (25-50%)	X	G	X	E	X	X	-	-	X	A	TEVN
• Phosphoric Acid (50-85%)	X	X	X	E	F	X	-	-	X	A	TEV
Picric Acid	E	X	X	G	X	X	G	G	X	-	TEVNB
Photographic Solution	-	-	-	-	E	X	E	E	X	X	TVNB
Phthalic Anhydride	-	G	G	E	E	G	E	E	X	X	TEV
Plating Solution											
• Chrome 40% Plating Solution	X	G	G	E	X	X	G	G	X	A	TEVN
• Copper (Cyanide) Plating Solution	-	-	-	E	-	-	-	-	X	A	TEVNB



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• Gold Plating Solution	-	-	-	E	-	-	E	-	X	A	TEVNB
• Brass Plating Solution	-	-	-	E	-	-	G	-	X	A	TEVNB
• Cadmium Plating Solution	-	-	-	E	-	-	G	-	X	A	TEVNB
• Iron Plating Solution	-	-	-	-	-	-	-	-	X	A	TEVB
• Lead Plating Solution	-	-	-	-	-	-	E	E	X	A	TEVNB
• Tin Plating Solution	-	-	-	E	-	-	F	-	X	A	TEVNB
• Nickel Plating Solution	-	-	-	E	-	-	E	E	X	A	TEVNB
• Silver Plating Solution	-	-	-	E	-	-	E	E	X	A	TEVNB
• Zinc Plating Solution	-	-	-	E	-	-	-	-	X	A	TEVNB
Potassium											
• Potassium Chromate (30%)	G	G	G	G	G	-	G	G	X	A	TEVB
• Potassium Cyanide Solution	X	X	X	G	G	G	G	G	X	A	TEVNB
• Potassium Dichromate (30%)	E	G	G	G	G	G	E	E	X	A	TEVB
• Potassium Hydroxide (90%)	X	X	X	G	G	-	-	X	X	A	TENB
• Potassium Nitrate (80%)	E	G	G	G	G	G	G	G	X	A	TEVNB
• Potassium Permanganate (20%)	G	G	G	E	G	G	G	G	X	A	TEVN
• Potassium Acetate	X	X	X	-	-	G	-	-	A	A	TEVB
• Potassium Bicarbonate (30%)	X	-	G	G	G	G	E	E	A	A	TEVNB
• Potassium Carbonate (50%)	X	X	G	G	G	G	E	E	A	A	TEVNB
• Potassium Chlorate (30%)	G	X	X	-	G	G	E	G	X	A	TEVNB
• Potassium Chloride (30%)	X	G	X	-	E	G	-	-	A	A	TEVNB
• Potassium Sulfate (10%)	E	G	G	E	E	G	E	E	A	A	TEVNB
Propane	E	E	E	G	E	E	G	G	X	X	TVB
Propylene Oxide (90%)	-	-	-	-	-	-	E	E	X	X	TE
Pyridine	G	G	G	-	G	G	G	G	A	X	T
Propylene Glycol	G	G	G	G	G	G	G	G	A	A	TVNB
Pyrogalllic Acid	G	G	G	G	G	G	G	G	X	X	TVNB
Silver Nitrate	X	X	X	-	X	X	E	G	X	A	TEVNB
Soap Solutions	G	G	G	E	G	G	G	G	A	A	TEVNB
Sodium											
• Sodium Cyanide	X	X	X	G	X	G	-	-	A	A	TEVNB
• Sodium Dichromate	G	X	X	E	-	G	G	G	X	A	TE
• Sodium Hydroxide (70%)	X	X	X	E	E	F	G	G	X	A	TENB
• Sodium Hydroxide (50%)	X	F	X	E	E	F	-	E	X	A	TENB
• Sodium Hydroxide (30%)	X	F	G	G	E	G	E	E	X	A	TENB
• Sodium Bisulfate	X	G	-	G	-	G	-	-	A	A	TEVNB
• Sodium Bisulfite	X	X	G	G	-	X	-	-	A	A	TEVNB
• Sodium Borate	G	G	G	G	G	F	G	G	A	A	TEVNB
• Sodium Perborate (10%)	G	G	X	G	G	G	G	G	X	A	TEVNB
• Sodium Carbonate	X	-	G	G	E	G	G	-	A	A	TEVNB
• Sodium Chloride (30%)	X	G	G	G	E	G	-	-	X	A	TEVNB
• Sodium Hypochlorite	X	X	X	-	X	X	-	-	X	A	TEV
• Sodium Metaphosphate	X	G	X	-	G	X	G	G	X	X	TEVNB
• Sodium Nitrate (40%)	E	-	G	-	G	G	E	E	A	A	TENB
• Sodium Perborate (10%)	G	G	X	G	G	G	G	G	X	A	TEVNB
• Sodium Peroxide (10%)	G	X	X	G	G	G	G	G	X	A	TEVNB
• Sodium Silicate	E	G	G	G	G	G	G	G	A	A	TEVNB
• Sodium Sulfate	-	G	G	G	-	G	E	-	A	A	TEVNB
• Sodium Acetate	E	G	G	-	G	X	G	G	A	A	TEN
• Sodium Bicarbonate (20%)	G	G	G	E	E	F	E	E	A	A	TEVNB
• Sodium Chlorate (50%)	G	G	G	E	E	X	G	G	X	A	TEVNB



Corrosion Resistance of Coupling Material

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