CORROSION DATA

This chart is a guide to the engineer in the selection of materials for corrosive services.

No one material can be expected to handle the wide variety of corrosive media found in industry today. Therefore, the user must decide, based on experience, which properties are of prime importance in their application.

The valve body material and internal parts in contact with the media should carry an A Rating.

This chart is intended to be a guide, and if any questions exist on the application of a material, actual tests should be performed to determine the suitability of the material.

RATINGS:

A = Excellent

B = Good

C = Poor

D = Do Not Use

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NOTE: Ratings are taken at 70˚ F, unless otherwise specified.

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Quality Controls, Inc. ● 200 Tilton Road ● Northfield, NH 03276
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	Bronze	Carbon Steel	303 Stainless Steel	304 Stainless Steel	316 Stainless Steel	Monel	Buna N	Delrin-Lubetal	EPDM-Nordel	Viton-Flourel	Neoprene	Virgin Teflon	Reinforced Teflon or Polyfill
Acetaldehyde	C	C	A	A	A	A	D	C	B	C	D	A	A
Acetamide	B		B	B	B		A				B	A	A
Acetate Solvents	B	A	A	A	A	A	D	D		D	D	A	A
Acetic Acid, aerated	D	D	A	A	A	A	C	D		C	C	A	A
Acetic Acid, Air Free	B	D	B	B	A	A	C	D		D	C	A	A
Acetic Acid, crude	C	C	B	B	A	B	D	D		D	D	A	A
Acetic Acid, glacial							D		B	C	C	A	A
Acetic Acid, pure	C	D	B	B	A	D	D	D		D	D	A	A
Acetic Acid, 10%	C	C	B	A	A	B	D	D	B	D	C	A	A
Acetic Acid, 80%	C	C	B	B	A	B	D	D	C	D	D	A	A
Acetic Acid Vapors	D		D	D	D	C	D					A	A
Acetic Anhydride	D	D	B	B	B	B	D	D	C	D	C	A	A
Acetone	A	A	A	A	A	A	D	A	A	D	D	A	A
Other Ketones	A	A	A	A	A	A	D	A	D	D	D	A	A
Acetyl Chloride	A			C	C	B	D		D	D	D	A	A
Acetylene	B	A	A	A	A	A	B	A	A	A	C	A	A
Acid Fumes	D	D	B	B	B		C				B	A	A
Acrylonite	A	A	A	A	A	A	D	D	D	C	D	A	A
Air	A	A	A	A	A	A	A	A	A	A	A	A	A
Alcohol, Amyl	B	B	B	A	A	B	C	A	A	B	C	A	A
Alcohol, Butyl	B	B	A	A	A	A	B	A	C	A	B	A	A
Alcohol, Diacetone	A	A	A	A	A	B	D		B	D	C	A	A
Alcohol, Ethyl	B	B	B	B	B	B	A	A	A	A	B	A	A
Alcohols, Fatty	B	B	A	A	A		B				B	A	A
Alcohol, Isopropyl	B	B	B	B	B	B	C	A	A	A	B	A	A
Alcohol, Methyl	B	B	A	A	A	A	B	A	A	C	A	A	A
Alcohol, Propyl	A	B	A	A	A	A	B		A	A	B	A	A
Alumina	A						A		A		A	A	A
Aluminum Acetate	D		B	B	A	C	D		A	D	D	A	A
Aluminum Chloride dry	B	C	C	C	C	B	B	A	A	A	B	A	A
Aluminum Chloride solution			D	D	D	B	B			A	B	A	A
Aluminum Fluoride		D	D	D	C	B	A		A	A	A	A	A
Aluminum Hydroxide	A	D	A	A	A	B	A		A	A	A	A	A
Aluminum Nitrate	D			C	C	C	B		B	D	B	A	A
Aluminum Oxalate					B	B						A	A
Alum (Aluminum Potassium Sulfate)	D		C	C	B	C	B			B	B	A	A
Aluminum Sulfate	C	D	B	C	B	C	A	A	A	A	A	A	A
Amines	B	B	A	A	A	B	D	A	C	D	D	A	A
Ammonia, Alum				A	A		B	C			B	A	A
Ammonia, Anhydrous Liquid	D	A	A	A	A	B	B	D	B	D	C	A	A
Ammonia, Aqueous	D	A	A	A	A	B	B	D		A	B	A	A
Ammonia Gas, hot	D		A	A	A	B	C	D	A	D	A	A	A
Ammonia Liquor			A	A	A			D				A	A
Ammonia Solutions	D	B	A	A	A	B	B	D	B	D	B	A	A

Many factors such as solution concentration, temperature, agitation and impurities affect the rate of corrosion. Quality Controls cannot accept any responsibility from the use of this data.

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Ammonium Acetate	D		B	B	B	B	B	D	A	D	B	A	A
Ammonium Bicarbonate	B	C	B	B	B	B	B	A	A	A	A	A	A
Ammonium Bromide 5%				B	B	B		A				A	A
Ammonium Carbonate	B	B	B	B	B	B	C	D	A	B	A	A	A
Ammonium Chloride	D	D	C	C	C	B	B	C	A	A	A	A	A
Ammonium Hydroxide 28%	D	C	B	B	B	D	B	D	B	A	A	A	A
Ammonium Hydroxide Concentrated	D	C	B	B	B	C	C	D	A	A	A	A	A
Ammonium Monosulfate				A	A	B		D				A	A
Ammonium Nitrate	D	D	A	A	A	D	A	D	A	A	A	A	A
Ammonium Oxalate 5%			A	A	A	B		A				A	A
Ammonium Persulfate	C		A	A	A	D	D	D	B	B	C	A	A
Ammonium Phosphate	D	D	B	B	B	C	A	C	A	A	A	A	A
Ammonium Phosphate Di-basic	C	D	B	B	B	C	A	A		A	A	A	A
Ammonium Phosphate Tri-basic	C	D	B	B	B	C	A	A		A	A	A	A
Ammonium Sulfate	C	C	B	B	B	B	A	B	A	B	A	A	A
Ammonium Sulfide	D	D		B	B	B	A	A	A	D	B	A	A
Ammonium Sulfite	C	C	A	A	A	D	B	A	B	A	A	A	A
Amyl Acetate	B	C	B	B	B	B	D	B	B	D	D	A	A
Amyl Chloride	B		A	A	A	B	D		D	D	C	A	A
Aniline	D	C	B	B	B	B	D	A	C	C	D	A	A
Aniline Dyes	C	C	A	A	A	A	C	A	C	B	C	A	A
Apple Juice	C	D	B	B	B	A	A	A	B	A	A	A	A
Aqua Regia	D	D	B	B	B		D		D	D	D	A	A
Aromatic Solvents	A	C	A	A	A	B	D		D		D	A	A
Arsenic Acid	D	D	B	B	B	D	A	A	B	A	A	A	A
Asphalt Emulsion	A	B	A	A	A	A	D	A	D	A	C	A	A
Asphalt Liquid	A	B	A	A	A	A	C	A	D	A	C	A	A
Barium Carbonate	B	B	B	B	B	B	B	A	A	A	A	A	A
Barium Chloride	B	C	C	B	B	B	A	A	A	A	A	A	A
Barium Cyanide	C		B	B	B	D	B		B	B	B	A	A
Barium Hydrate	D			B	A	B						A	A
Barium Hydroxide	C	C	B	B	B	B	A	A	A	A	A	A	A
Barium Nitrate			A	A	A						B	A	A
Barium Sulfate	C	C	B	B	A	B	A	A	B	A	A	A	A
Barium Sulfide	D	C	B	B	B	C	A	A	A	A	B	A	A
Beer-Alcohol Industry	B	D	A	A	A	A	B	A	B	A	B	A	A
Beer-Beverage Industry	B	C	A	A	A	A	C	A			B	A	A
Beet Sugar Liquors	A	B	A	A	A	A	A	A	B	A	A	A	A
Benzaldehyde	A	A	A	B	A	B	D	A	A	D	D	A	A
Benzene (Benzol)	B	B	B	B	B	A	D	A	D	B	D	A	A
Benzoic Acid	B	D	B	B	B	B	C		D	B	C	A	A
Beryllium Sulfate	B		B	B	B	B	B		B	B	B	A	A
Bleaching Powder wet	B				C		D		B	B	A	A	A
Blood (Meat Juices)	B		B	B	B	B	B		B	B	B	A	A

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Borax (Sodium Borate)	D	C	A	A	A	A	B	A	A	A	D	A	A
Bordeaux Mixture			A	A	A							A	A
Borax Liquors	A	C	B	B	B	A	B	A	A	A	C	A	A
Boric Acid	C	D	B	B	B	B	B	A	B	A	B	A	A
Brake Fluid	B			B	B	B	D		B	D	C	A	A
Brines, saturated	B	D	B	B	B	B	A	A	A	A	B	A	A
Bromine, dry	B	D	D	D	D	A	D		D	B	D	A	A
Bunker Oils (Fuel)	B	B	A	A	A	A	B	A		A	B	A	A
Butadiene	C	B	B	B	A	C	C	A	C	B	C	D	D
Butane	A	B	B	B	B	B	B	A	D	B	B	A	A
Butter					A		B				B	A	A
Buttermilk	D	D	A	A	A	D	A	A	B	A	A	A	A
Butyl Acetate	B		B	B	B	B	D		D	D	D	A	A
Butylene	A	A	A	A	A	A	D		D	D	D	A	A
Butyric Acid	C	D	B	B	B	B	C	A	C	C	C	A	A
Calcium Bisulfate	C	D	C	C	B	D	A	A	D	A	A	A	A
Calcium Carbonate	C	D	B	B	B	B	A	A	B	A	A	A	A
Calcium Chlorate	D		B	B	B	B	B		B	B	B	A	A
Calcium Chloride	B	C	B	B	B	B	A	A	B	A	A	A	A
Calcium Hydroxide	C	C	B	B	B	A	A	A	A	A	B	A	A
Calcium Nitrate							B		B		B	A	A
Calcium Phosphate	C			C	B		B		B	B	B	A	A
Calcium Silicate	C			C	B		B		B	B	B	A	A
Calcium Sulfate	C	C	B	B	B	B	A	A	B	A	A	A	A
Caliche Liquor		B					B				B	A	A
Camphor	C			C	B	C	B		B	B	B	A	A
Cane Sugar Liquors	B		A	B	A	B	B		B	B	B	A	A
Carbolic Acid	B	D	B	B	B	B	D	D		B	D	A	A
Carbolic Acid (phenol)	C	D	B	B	B	B	D	D	B	B	D	A	A
Carbonated Beverages	B	D	B	B	B	C	B		B	B	B	A	A
Carbonated Water	B	B	A	A	A	B	A	A	A	A	A	A	A
Carbon Bisulfide	C	B	B	B	B	B	D	A	D	A	D	A	A
Carbon Dioxide, dry	A	A	A	A	A	A	C	A	B	B	B	A	A
Carbonic Acid	D	D	B	B	B	B	B	A	B	A	B	A	A
Carbon Monoxide	A		A	A	A	A	B		B	B	D	A	A
Carbon Tetrachloride, dry	C	B	A	A	A	A	D	A	D	B	D	A	A
Carbon Tetrachloride, wet	D	D	C	C	B	B	D	A	D	B	D	A	A
Casein	C			C	B	C	B		B	B	B	A	A
Castor Oil	A	B	A	A	A	A	A	A	B	A	B	A	A
Caustic Potash						B	B				B	A	A
Caustic Soda		B		A	A	A	C		B	B		A	A
Cellulose Acetate	B			B	B	B	D		B	D	D	A	A
China Wood Oil (Tung)	C	C	A	A	A	A	A	A	D	A	B	A	A
Chlorinated Solvents	C	C	B	B	B	B	D	A	D	C	D	A	A

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Chlorinated Water			D	D	C	D	B	A		A	A	A	A
Chlorine Gas, dry	C	B	B	B	B	A	C	D	D	B	D	A	A
Chlorobenzene, dry	B	B	A	B	A	B	D	A	D	A	D	A	A
Chloroform, dry	B	B	A	A	A	A	D	A	D	B	D	A	A
Chlorophyll, dry	B			B	B	B	B		B	B	B	A	A
Chlorosulfonic Acid, dry	C	B	B	B	B	B	D		D	D	D	A	A
Chrome Alum	C	B	A	A	A	B	B		B	B	B	A	A
Chromic Acid ≤50%	D	D	C	C	C	C	D	D	C	C	D	A	A
Chromic Acid ≥50%	D	D	C	D	C	D	D	D	C	C	D	A	A
Chromium Sulfate	C			B	B	B	B		B	B	B	A	A
Cider			A	A	A	A						A	A
Citric Acid	C	D	A	B	A	B	B		B	A	A	A	A
Citrus Juices	B	D	B	B	B	A	A	A		A	A	A	A
Coca-Cola Syrup			A	A	A		B			B	B	A	A
Coconut Oil	B	C	B	B	B	B	A	A	A	A	C	A	A
Cod Liver Oil											C	A	A
Coffee	A		A	A	A	B	A		A	A	A	B	B
Coffee Extracts, hot	B	C	A	A	A	A						A	A
Coke Oven Gas	C	B	A	A	A	B	C		D	B	D	A	A
Cooking Oil	B	B	A	A	A	A	A	A	D	A	B	A	A
Copper Acetate	D	D	A	A	A	C	C		B	D	C	A	A
Copper Carbonate			A	A	A							A	A
Copper Cyanide	D		A	A	A	C	A		B	B	A	A	A
Copper Nitrate	D	D	B	B	B	D	A	A	B	A	A	A	A
Copper Sulfate	D	D	B	B	B	C	A	A	A	A	A	A	A
Corn Oil	B	C	B	B	B	B	A	A	C	A	C	A	A
Cottonseed Oil	B	C	B	B	B	B	A	A	C	B	B	A	A
Cresol					B		D		D	D	D	A	A
Creosote Oil	B	B	B	B	B	B	C	D	D	A	D	A	A
Cresylic Acid	C	C	B	B	B	B	D	D	D	B	D	A	A
Crude Oil, sour	C	B	A	B	A	B	A		D	A	B	A	A
Crude Oil, sweet	B	B	A	A	A	A	A			A	B	A	A
Cupric Nitrate				A	A	D						A	A
Cutting Oils, Water Emulsions	A	B	A	A	A		A	A		A	B	A	A
Cyanide Plating Solution	D			B	B	D	B		B	B	B	A	A
Cyclohexane	A	A	A	B	A	B	C	A	D	A	D	A	A
Cyclohexanone	B		B				D				D	A	A
Detergents, synthetic	B			B	B	B	B		B	A	B	A	A
Dextrin	B			B	B	B	B		B	B	B	A	A
Dichloroethane					C	B	D		D		D	A	A
Dichloroethyl Ether	B			B	B		D		D	D	D	A	A
Diesel Oil Fuels	A	A	A	A	A	A	A	A	D	A	C	A	A
Diethylamine	B	A	A	A	A	B	B		C	D	C	A	A
Diethyl Benzene							D		D		D	A	A

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Diethylene Glycol	B			A	A	B	A		A	B	A	A	A
Diethyl Sulfate	B			B	B	B	C		C	B	C	A	A
Dimethyl Anilia							C				C	A	A
Dimethyl Formamide	B			A	A	B	B		D	D	D	A	A
Dimethyl Phthalate							B			D	B	A	A
Dioxane	B			B	B	B	D		C	D	D	A	A
Dipentane							B		D		B	A	A
Dipentane (Pinene)	A			A	A		B		D	B	D	A	A
Disodium Phosphate						C	B			B	B	A	A
Dowtherm	A	B	A	A	A	A	D	A	D	A	D	A	A
Drilling Mud	B	B	A	B	A	B	A	A	A	A	C	A	A
Dry Cleaning Fluids	C	B	A	A	A	B	D	A		B	D	A	A
Drying Oil	C	C	B	B	B	B	A	A			B	A	A
Enamel	A						B		D		B	A	A
Epsom Salts	B	C	B	B	B	B	A	A		A	A	A	A
Ethane	B	C	B	B	B	B	A	A	D	A	B	A	A
Ethers	B	A	A	A	A	B	D	C	C	C	D	A	A
Ethyl Acetate	C	B	B	B	B	B	D	A	C	D	D	A	A
Ethyl Acrylate	B	C	A	A	A	B	D		C	D	D	A	A
Ethyl Benzene							C	A	D		D	A	A
Ethyl Bromide	A			B	B	B	B		B	B	B	A	A
Ethyl Chloride, dry	B	B	A	A	A	B	C	A	C	B	C	B	B
Ethyl Chloride, wet	C	D	B	C	B	B	C		B	B	C	A	A
Ethylene Chloride			A	A	A	B	D			D	A	A	A
Ethylene Dichloride						B	D	D	D	D	D	A	A
Ethylene Glycol	B	B	B	B	B	B	A	C	A	A	B	A	A
Ethylene Oxide	C	B	B	B	B	B	D	A	D	D	D	A	A
Ethyl Ether	B				A	A	D		D	D	D	A	A
Ethyl Silicate	B			B	B	B	B		B	B	C	A	A
Ethyl Sulfate							B	A	C	A	B	A	A
Fatty Acids	C	D	B	B	A	B	B	A	D	A	B	A	A
Ferric Hydroxide				A	A	A	B					A	A
Ferric Nitrate	D	D	C	C	C	D	A	A	A	A	A	A	A
Ferric Sulfate	D	D	B	B	B	D	A	A	A	A	A	A	A
Ferrous Ammonium Citrate												A	A
Ferrous Chloride	B	D	D	D	D	D	A	A	A	A	A	A	A
Ferrous Sulfate	B	D	B	B	B	B	A	A	A	A	A	A	A
Ferrous Sulfate, Saturated	C	C	A	B	A	B	C		B	B	C	A	A
Fertilizer Solutions	C	B	B	B	B	B	B	D			B	A	A
Fish Oils	B	B	A	A	A	A	A	B	D	A	B	A	A
Flue Gases	B			B	A	B	C	C	D	C	C	A	A
Fluoboric Acid					B		A				B	A	A
Fluorosilicic Acid	B	D	B	B	B	A	C		C	C	C	A	A
Food Fluids & Pastes	B	C	A	A	A	B	B				C	A	A

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Formaldehyde, cold	A	A	A	A	A	A	B	A	B	D	C	A	A
Formaldehyde, hot	B	D	C	C	C	B	B	A			B	A	A
Formic Acid, cold	B	D	C	C	B	B	D	D		B	B	A	A
Formic acid, hot	B	D	C	C	B	B	D	D		A	A	A	A
Freon Gas, dry	B	B	A	A	A	A	C	B	C	C	C	A	A
Freon 11, MF, 112 BF	B				A	B	C	B	C	D	C		
Freon 12, 13, 32, 114, 115	A					B	B	B	A	D	A		
Freon 21, 31	B				A	B	D	B	D	D	D		
Freon 22	A						D	B	D	D	B		
Freon 113, TF	B				A	B	B		C	C	C		
Freon, wet	D		B	C	C	B	B		B	D	B	A	A
Fruit Juices	B	D	A	A	A	B	A	A	A	A	A	A	A
Fuel Oil	B	B	A	A	A	B	A	A	D	A	C	A	A
Fumaric Acid							B				B	A	A
Furfural	A	A	A	A	A	B	D	A	C	D	C	A	A
Gallic Acid 5%	C	D	B	B	B	B	B	A	C	A	B	A	A
Gas, Manufactured	B	B	B	B	B	A	A	A		A	A	A	A
Gas, Natural	B	B	A	A	A	A	A	A	D	A	A	A	A
Gas, Odorizers	A	B	B	B	B	B	B	A		A	B	A	A
Gasoline, Aviation	A	A	A	A	A	A	C	A		A	D	A	A
Gasoline, Leaded	A	A	A	A	A	B	C	A		A	D	A	A
Gasoline, Motor	A	A	A	A	A	A	C	A	D	A	D	A	A
Gasoline, Refined	B	B	A	A	A	B	C		D	A	C	A	A
Gasoline, Sour	B	B	A	B	A	C	C	A	D	A	D	A	A
Gasoline, Unleaded	A	A	A	A	A	A	C	A		A	D	A	A
Gelatin	A	D	A	A	A	B	A	A	A	A	A	A	A
Glucose	A	B	A	A	A	A	A	A	A	A	A	A	A
Glue	B	A	B	B	B	B	A		B	A	A	A	A
Glycerine (Glycerol)	B	C	A	A	A	A	A	C	A	A	A	A	A
Glycol Amine	D			B	B		D		C	D	C	A	A
Glycols	B	C	B	B	B	B	B	C	A	A	A	A	A
Graphite	B			B	B	B	B		B	B	B	A	A
Grease	C	A	A	A	A	B	A		D	A	B	A	A
Helium Gas	B			B	B	B	B		B	B	B	A	A
Heptane	A	B	A	A	A	B	A	A	D	A	B	A	A
Hexane	B	B	B	B	B	B	A	A	D	A	C	A	A
Hexanol, Tertiary	A	A	A	A	A	A	A		D	B	C	A	A
Hydraulic Oil, Petroleum Base	B	A	A	A	A	A	A	A	D	A	B	A	A
Hydrazine	D			B	B	D	C		B	D	C	A	A
Hydrocyanic Acid	D	D	A	A	A	C	B	D	B	A	B	A	A
Hydrofluosilicic Acid	A	D	C	D	C	B	B	B	A	B	B	A	A
Hydrogen Gas, cold	B	B	A	A	A	A	B		B	A	B	A	A
Hydrogen Gas, hot		B			B		B		B		B	A	A
Hydrogen Peroxide, Concentrated	D	D	B	B	B	C	D		B	B	D	A	A

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Hydrogen Peroxide, Dilute	C	D	B	B	B	B	A	B	B	A	B	A	A
Hydrogen Sulfide, dry	C	B	B	B	A	B	C	A	A	A	A	A	A
Hydrogen Sulfide, wet	D	C	B	B	B	C	C	A	B	A	B	A	A
Hypo (Sodium Thiosulfate)	C	D	A	A	A	B	A	A	A	A	A	A	A
Illuminating Gas	A	A	A	A	A	A	C		D	A	C	A	A
Ink-Newsprint	C	D	B	A	A	B	A	A	B	A	B	A	A
Iodoform	C	B	A	A	A	C		A		A		A	A
Iso-Butane					B		B		D		D	A	A
Iso-Octane	A	A	A	A	A	A	A	A	D	A	C	A	A
Isopropyl Acetate					B		D				D	A	A
Isopropyl Ether	A	A	A	A	A	B	C		D	D	C	A	A
J P-4 Fuel	A	A	A	A	A	A	A	A		A	C	A	A
J P-5 Fuel	A	A	A	A	A	A	B	A		A	C	A	A
J P-6 Fuel	A	A	A	A	A	A	A	A		A	C	A	A
Kerosene	A	B	A	A	A	A	A	A	D	A	C	A	A
Ketchup	D	D	A	A	A	B	A	A		A	A	A	A
Ketones	A	A	A	A	A	A	D	A	D	D	D	A	A
Lacquer (and Solvent)	A	C	A	A	A	A	D	A	D	D	D	A	A
Lactic Acid Concentrated, cold	D	D	B	B	A	D	B	D	B	A	A	A	A
Lactic Acid Concentrated, hot	D	D	B	B	B	D	C	D	B	B	C	A	A
Lactic Acid Dilute, cold	D	D	A	B	A	C	B	D	B	A	A	A	A
Lactic Acid Dilute, hot	D	D	B	B	A	D	C	D		D	D	A	A
Lactose	B			B	B	B	B		B	B	C	A	A
Lard	B		A	A	A		B		C		C	A	A
Lard Oil	B	C	A	B	B	B	A	A	B	A	B	A	A
Lead Acetate	C	D	B	B	B	B	A	A	B	B	B	A	A
Lead Sulfate	C			B	B	B	B		B	B	B	A	A
Lecithin	C			B	B	B	D		D	B	D	A	A
Linoleic Acid	B	B	A	B	A	B	B	A	D	B	B	A	A
Linseed Oil	B	A	A	B	A	B	A	A	D	A	C	A	A
Lithium Chloride	B			B	B	B	B		B	B	B	A	A
LPG	A	B	B	B	B	B	A	A	D	A	B	A	A
Lubricating Oil Petroleum Base	B	A	A	A	A	B	A	A	D	A	B	A	A
Ludox	D			B	B	B	B		B	B	B	A	A
Magnesium Bisulfate	B	B	A	B	A	B	B		B	B	B	A	A
Magnesium Bisulfide	D			B	B	B	B		B	B	B	A	A
Magnesium Carbonate	B		A	B	A	B	B		B	B	B	A	A
Magnesium Chloride	B	C	B	B	B	B	A	A	A	A	A	A	A
Magnesium Hydroxide	B	B	A	A	A	B	A	A	A	A	A	A	A
Magnesium Hydroxide, hot	D	B	A	A	A	A	B	A		A	B	A	A
Magnesium Nitrate			A	A	A	B	B			B	A	A	A
Magnesium Sulfate	B	B	B	A	A	B	A	A	A	A	A	A	A
Maleic Acid	B	B	B	B	B	B	B	A	D	A	B	A	A
Maleic Anhydride	B			B	B	B	D		D	B	D	A	A

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Malic Acid	B	D	B	B	B	B	A	A		A	B	A	A
Malt Beverages							A		B	A	A	A	A
Manganese Carbonate				B	B		B					A	A
Manganese Sulfate	B		B	B	B	B	B		B	B	B	A	A
Mayonnaise	D	D	A	A	A	B	A	A		A	A	A	A
Meat Juices	D						B				B	A	A
Melamine Resins					C		B				B	A	A
Menthol	B			B	B	B	B		D	B	B	A	A
Mercuric Chloride	D	D	D	D	C	D	A		A	A	B	A	A
Mercuric Cyanide	D	D	A	B	A	C	A		A	A	B	A	A
Mercurous Nitrate	D		A	A	A	D				B		A	A
Mercury	D	A	A	A	A	B	A	A	A	A	A	A	A
Methane	A	B	B	B	B	B	A	A		A	B	A	A
Methyl Acetate	A	B	A	B	A	B	D		B	D	D	A	A
Methyl Acetone	A	A	A	A	A	A	D		A	D	D	A	A
Methylamine	D	B	A	A	A	C	D		B	D	D	A	A
Methyl Bromide 100%	C			B	B	B	B		D	B	D	A	A
Methyl Cellosolve	A	B	A	A	A	B	C		B	D	D	A	A
Methyl Cellulose							D				D	A	A
Methyl Chloride	B	B	B	A	A	B	D	A	D	B	D	A	A
Methyl Ethyl Ketone	A	A	A	A	A	A	D	A	B	D	D	A	A
Methylene Chloride	A	B	A	B	A	B	D		D	C	D	A	A
Methyl Formate	A	C	B	B	B	B	D		B	D	B	A	A
Methyl Isobutyl Ketone							D				D	A	A
Milk & Milk Products	B	D	A	A	A	B	A	A	A	A	A	A	A
Mineral Oils	B	B	A	A	A	A	A	A	D	A	B	A	A
Mineral Spirits	B	B	B	B	B	B	A	A		A	C	A	A
Mine Water (Acid)	C	D	C	C	C	C	A	A	B	A	A	A	A
Mixed Acids (cold)	D	C	B	C	B	C	D	D	D	B	D	A	A
Molasses, crude	A	A	A	A	A	A	A	A		A	A	A	A
Molasses, Edible	A	C	A	A	A	A	A	A		A	A	A	A
Molybdic Acid				A	A							A	A
Monochloro Benzene Dry						B	D				D	A	A
Morpholine	B		A	B	B	B	D		B	D	D	A	A
Mustard	A	B	A	A	A	A	A	A		A	A	A	A
Naptha	B	B	B	B	B	B	B	A	D	A	C	A	A
Napthalene	B	B	B	B	B	B	D	A	D	A	D	A	A
Natural Gas, Sour	B			D	D	D	A		D	A	A	D	D
Nickel Ammonium Sulfate	D	D	A	A	A	C	A		B	D	B	A	A
Nickel Chloride	D	D	B	B	B	B	A	A	B	A	A	A	A
Nickel Nitrate	D	D	B	B	B	B	A	A	A	A	A	A	A
Nickel Sulfate	D	D	B	B	B	B	A	A	B	A	A	A	A
Nicotinic Acid	A	B	A	A	A	A	D		D	B	D	A	A
Nitric Acid 10%	D	D	A	A	A	D	C	D		A	B	A	A

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Nitric Acid 30%	D	D	A	A	A	D	C	D	B	A	C	A	A
Nitric Acid 80%	D	D	B	B	B	D	D	D	B	B	D	A	A
Nitric Acid 100%	D	D	B	B	A	D	D	D	D	B	D	A	A
Nitric Acid Anhydrous	D	D	A	A	A	D	D		D	A	D	A	A
Nitrobenzene	D	B	B	A	A	B	D		C	C	D	A	A
Nitrogen	A	A	A	A	A	A	A	A	B	A	A	A	A
Nitrous Acid 10%	D	D	B	B	B	D	C			A	A	A	A
Nitrous Gases	D	B	A	A	A	D						A	A
Nitrous Oxide	D	B	B	B	B	D	B	A		A	B	A	A
Oils & Fats			B	B	B		B		D			A	A
Oils, Animal	A	A	A	B	A	B	A		B	B	B	A	A
Oils, Petroleum Refined	B	A	A	A	A	A	A	A	D	A	B	A	A
Oils, Petroleum Sour	C	B	A	A	A	A	B		D	A	B	A	A
Oils, Water Mixture	A	B	A	A	A		A	A		A	B	A	A
Olaic Acid					B	A	D			C	D	A	A
Oleic Acid	B	C	B	B	B	B	B	A	D	A	C	A	A
Oleum	C	B	B	B	B	C	D	D	D	C	D	A	A
Oleum Spirits	D		B	B	B	C	D		D	A	D	A	A
Olive Oil	C	B	A	A	A	A	A	A	B	A	B	A	A
Oxalic Acid	B	D	B	B	B	B	C	C	B	A	B	A	A
Oxygen	A	B	A	A	A	A	B	D	A	A	B	A	A
Ozone, dry	A	A	A	A	A	A	D		A	B	D	A	A
Ozone, wet	B	C	B	A	A	A	D		B	B	D	A	A
Paints & Solvents	A	A	A	A	A	A	D		D	B	D	A	A
Palmitic Acid	B	C	B	B	B	B	B	A	B	A	B	A	A
Palm Oil	B	C	B	B	B	A	B	A	D	A	B	A	A
Paper Pulp	B			B	B	B	B		B	B	B		
Paraffin	A	B	A	A	A	A	A	A	D	A	C	A	A
Paraformaldehyde	B	B	B	B	B	B	B	A	D		B	A	A
Paraldehyde							B		D		B	A	A
Pentane	A	B	A	A	A	B	A	A	D	A	B	A	A
Perchlorethylene, dry	C	B	A	B	A	B	D		D	A	D	A	A
Petrolatum (Vaseline Petroleum Jelly)	B	C	B	B	B	A	A	A		A	B	A	A
Phenol	B	D	A	B	A	A	D	D	D	B	D	A	A
Phosphate Ester 10%	D	A	A	A	A	A	D		A			A	A
Phosphoric Acid 10%	D	D	C	D	D	D	B	D	B	A	A	A	A
Phosphoric Acid 50%, cold	D	D	B	C	B	C	B	D	B	A	B	A	A
Phosphoric Acid 50%, hot	D	D	D	D	D	C	B	D	B	A	B	A	A
Phosphoric Acid 85%, cold	D	B	B	B	A	A	C	D		B	C	A	A
Phosphoric Acid 85%, hot	D	C	C	B	B		C	D			C	A	A
Phosphoric Anhydride				A	A		D	B		B	D	A	A
Phosphorous Trichloride		B	A	A	A		D		B	B	D	A	A
Phthalic Acid	B	C	B	B	B	A	C	A		A	C	A	A
Phthalic Anhydride	B	C	B	B	B	A	C	A		A	C	A	A

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Picric Acid	C	D	B	B	B	D	C		B	B	A	A	A
Pineapple Juice	C	C	A	A	A	A	A	A		A	A	A	A
Pine Oil	B	B	A	A	A	B	A	A	D	A	D	A	A
Pitch (Bitumen)							C		D		C	A	A
Polysulfide Liquor	D			B	B	B	B		B	B	B	A	A
Polyvinyl Acetate	B			B	B	B			B		C	A	A
Polyvinyl Chloride	B			B	B	B			B		C	A	A
Potassium Bicarbonate			A	A	A	B	B		A			A	A
Potassium Bichromate			A	A	A	A	B	B		B	B	A	A
Potassium Bisulfate					A	B	B	A		A	B	A	A
Potassium Bisulfite	C	D	B	B	B	D	A	A	B	A	A	A	A
Potassium Bromide	C	D	A	A	A	B	A	A	B	A	A	A	A
Potassium Carbonate	B	B	B	B	B	B	A	A	B	A	A	A	A
Potassium Chlorate	B	B	B	B	B	C	A	A	B	A	A	A	A
Potassium Chloride	C	C	C	C	C	B	A	A	A	A	A	A	A
Potassium Chromate	B			B	B	B	B		B	B	A	A	A
Potassium Cyanide	D	B	B	B	B	B	A	A	A	A	A	A	A
Potassium Dichromate	D	C	B	B	B	B	A	A	B	A	A	A	A
Potassium Ferricyanide	D	C	B	B	A	B	A	A	B	A	A	A	A
Potassium Ferrocyanide	B	C	B	B	B	A	A	A		A	A	A	A
Potassium Hydroxide Dilute, cold	D	A	A	A	A	A	A			D	B	A	D
Potassium Hydroxide to 70%, cold	D	B	A	A	A	A	B		B	D	B	A	D
Potassium Hydroxide Dilute, hot	D	B	A	A	A	A	B				B	A	D
Potassium Hydroxide to 70%, hot	D	A	A	A	A	A	C		A		B	A	D
Potassium Iodine	D	C	B	B	B	C	A	A	B	A	A	A	A
Potassium Nitrate	B	B	A	B	B	B	A	A	B	A	A	A	A
Potassium Oxalate			A	A	A							A	A
Potassium Permanganate	B	B	B	B	B	B	A	A	B	A	A	A	A
Potassium Phosphate	C			B	B	B	A		A	A	A	A	A
Potassium Phosphate Di-basic	B	A	A	A	A	B	A	A	B	A	A	A	A
Potassium Phosphate Tri-basic		A			B	B	B		B		B	A	A
Potassium Sulfate	B	B	B	A	A	B	A	A	A	A	A	A	A
Potassium Sulfide	B	B	B	B	A	C	A		B	B	B	A	A
Potassium Sulfite	B	B	B	B	A	C	B		A	B	B	A	A
Producer Gas	B	B	B	B	B	A	A	A	D	A	B	A	A
Propane Gas	A	B	B	B	B	B	A	A	D	A	B	A	A
Propyl Bromide	B			B	B	B	B		B	B	B	A	A
Propylene Glycol	B	B	B	B	B	B	A	C	B	A	A	A	A
Pyridine			B				D			D	D	A	A
Pyrogallic Acid	B	B	A	B	B	B	A	A		A	A	A	A
Pyroligneous Acid			A	A	A							A	A
Quench Oil	B	B	A	A	A		A	A		A	B	A	A
Quinine Bisulfate, dry			A	A	A	B						A	A
Quinine Sulfate, dry			A	A	A	B						A	A

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Resins & Rosins	A	C	A	A	A	A	C			A	C	A	A
Resorcinol												A	A
Road tar	A	A	A	A	A	A	B	A	D	A	C	A	A
Roof Pitch	A	A	A	A	A	A	B	A		A	C	A	A
Rosin Emulsion	B	C	A	A	A	A	D			B	C	A	A
R P-1 Fuel	A	A	A	A	A	A	B	A		A	C	A	A
Rubber Latex Emulsions	A	B	A	A	A			A		A		A	A
Rubber Solvents	A	A	A	A	A	A	D	C		D	C	A	A
Salad Oil	B	C	B	B	B	B	A	A	B	A	A	A	A
Salicylic Acid	C	D	A	A	A	B	A	A	B	A	A	A	A
Salt (NaCI)	B	C	B	B	B	A	A	A		A	A	A	A
Salt Brine	B			A	A	B	A		B	B	D	A	A
Sauerkraut Brine			D	D	B							A	A
Sea Water	C	D	B	B	A	A	A	A	A	A	A	A	A
Sewage	C	C	B	B	B	B	A		B	B	C	A	A
Shellac-bleached	A	A	A	A	A		A			C	B	A	A
Shellac-orange	A	A	A	A	A	A	A				A	A	A
Silicone Fluids	B		B	B	B		B			B	B	A	A
Silver Bromide			B	B	A	B						A	A
Silver Cyanide	D		A	B	A	B	B			B	B	A	A
Silver Nitrate	D	D	A	B	A	D	C	A	A	A	C	A	A
Silver Plating Sol.			A	A	A						B	A	A
Soap Solutions (Stearates)	A	A	A	A	A	A	A		A	A	B	A	A
Sodium Acetate	B	C	B	B	B	C	B	A	B	A	B	A	A
Sodium Aluminate	B	C	B	B	B	B	A	A	B	A	A	A	A
Sodium Benzoate						B						A	A
Sodium Bicarbonate	B	C	B	B	B	B	A	A	A	A	A	A	A
Sodium Bichromate			A	A	A		D					A	A
Sodium Bisulfate 10%	B	D	A	A	A	B	A	A	B	A	A	A	A
Sodium Bisulfite 10%	B	D	A	A	A	B	A	A	B	A	A	A	A
Sodium Borate	B	C	B	B	B	B	A	A	B	A	A	A	A
Sodium Bromide 10%	B	C	B	B	B	B	A	A	B	A	A	A	A
Sodium Carbonate (Soda Ash)	B	B	A	B	A	B	A	A	B	A	A	A	A
Sodium Chlorate	B	C	B	B	B	C	A	A	B	A	A	A	A
Sodium Chloride	B	C	B	B	B	A	A	A	B	A	A	A	A
Sodium Chromate	C	B	A	A	A	B	A	A	B	A	A	A	A
Sodium Citrate			A	A	A							A	A
Sodium Cyanide	D	B	A	B	B	B	A	A	B	A	A	A	A
Sodium Ferricyanide				A	A	B						A	A
Sodium Fluoride	C	D	B	B	B	B	A	A	B	A	A	A	A
Sodium Hydroxide 20%, cold	A	A	A	A	A	A	A		B	B	A	A	D
Sodium Hydroxide 20%, hot	A	B	A	A	A	A	B		B	C	B	A	D
Sodium Hydroxide 50%, cold	A	A	A	A	A	A	A		B	C	A	A	D
Sodium Hydroxide 50%, hot	A	B	B	B	A	A	B			C	B	A	D

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	Bronze	Carbon Steel	303 Stainless Steel	304 Stainless Steel	316 Stainless Steel	Monel	Buna N	Delrin-Lubetal	EPDM-Nordel	Viton-Flourel	Neoprene	Virgin Teflon	Reinforced Teflon or Polyfill
Sodium Hydroxide 70%, cold	A	A	B	A	A	A	B		B	C	C	A	D
Sodium Hydroxide 70%, hot	B	B	B	B	A	B	D		B	C	D	A	D
Sodium Hydrosulfite						A						A	A
Sodium Hyposulfite			A	A	A	B						A	A
Sodium Lactate			A	A	A	B						A	A
Sodium Metaphosphate	C	B	A	B	A	B	A		B	B	B	A	A
Sodium Metasilicate, cold	B	C	A	A	A	A	B			B	A	A	A
Sodium Metasilicate, hot	B	D	A	A	A	A						A	A
Sodium Nitrate	B	B	B	B	B	B	C	A	B	A	B	A	A
Sodium Nitrite			A	A	A	C	C	B	A	B	D	A	A
Sodium Orthosilicate							A		A		A	A	A
Sodium Perborate	B	B	B	B	B	B	C	A	A	A	B	A	A
Sodium Peroxide	D	C	B	B	B	B	C	A	A	A	B	A	A
Sodium Phosphate	C	C	A	B	A	B	B	B	A	A	C	A	A
Sodium Phosphate Di-basic	C	C	A	B	B	B	A	A	A	A	A	A	A
Sodium Phosphate Tri-basic	C	C	B	B	B	B	B	A	A	A	B	A	A
Sodium PolyPhosphate					B		B		A		B	A	A
Sodium Salicylate			A	A	A							A	A
Sodium Silicate	B	B	A	B	B	B	A	A	B	A	A	A	A
Sodium Silicate, hot	C	C	B	B	B	B			B			A	A
Sodium Sulfate	B	B	B	B	A	A	A	A	A	A	A	A	A
Sodium Sulfide	D	B	B	B	B	B	A	A	B	A	A	A	A
Sodium Sulfite	C		A	A	A	B	A		B	B	A	A	A
Sodium Tetraborate					A		A		B		A	A	A
Sodium Thiosulfate	C	B	A	A	A	B	A	A	A	A	A	A	A
Soybean Oil	B	C	A	A	A	A	A	A	B	A	B	A	A
Starch	B	C	B	B	B	A	A	A	C	A	A	A	A
Steam (212˚F)	A	A	A	A	A	B	D	D	B	C	D	A	A
Stearic Acid	C	C	B	B	B	B	A	A	B	A	C	A	A
Styrene	A	A	A	A	A	B	D		D	B	D	A	A
Succinic Acid			D	D								A	A
Sugar Liquids	A	B	A	A	A	A	A	A	B	A	A	A	A
Sugar, Syrups & Jam	B		B								B	A	A
Sulfate, Black Liquor	C	C	B	B	B	B	C	B	B	C	B	A	A
Sulfate, Green Liquor	C	C	B	B	B	B	C	A		C	B	A	A
Sulfate, White Liquor	C	C	B	B	B	C	C	A		C	B	A	A
Sulfonic Acid	B			B	B	B	D		D	B	D	A	A
Sulfur	D	C	B	B	B	B	D	A	B	B	C	A	A
Sulfur Chlorides	B	D	D	D	D	B	D	A	C	A	D	A	A
Sulfur Dioxide, dry	B	B	A	A	A	B	D	A	A	A	D	A	A
Sulfur Dioxide, wet	D		B	B	A	A	D		B		D	A	A
Sulfur Hexafluoride	B		A	A	A						B	A	A
Sulfur, Molten	D	C	B	B	B	D	D		B	B	C	A	A
Sulfur Trioxide	B	B					D			B	D	A	A

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Sulfur Trioxide, dry	B	B	A	A	A	B	D	A	B	A	D	A	A
Sulfuric Acid 0 to 77%	C	D	C	C	B	B	B	C		A	B	A	A
Sulfuric Acid 100%	C	C	B	B	A	D	D	D	C	B	D	A	A
Sulfuric Anhydride						D						A	A
Sulfurous Acid	D	D	C	C	B	D	C	C	C	A	C	A	A
Tall Oil	B	B	B	B	B	B	B	A	D	A	B	A	A
Tallow, Molten							A				A	A	A
Tannic Acid (Tannin)	B	C	B	B	B	B	B	A	B	A	B	A	A
Tanning Liquors			B	B	B		B				D	A	A
Tar & Tar Oils	A	A	A	A	A	A	C		D	A	D	A	A
Tartaric Acid	B	D	B	A	A	B	C	A	B	A	B	A	A
Tetraethyl Lead	B	C	B	B	B	A		A				A	A
Toluol (Toluene)	A	A	A	A	A	A	D	A	D	B	D	A	A
Tomato Juice	C	C	A	A	A	B	A	A		A	A	A	A
Transformer Oil	B	A	A	A	A	A	A	A		A	B	A	A
Tributyl Phosphate	A	A	A	A	A	A	D		B	D	D	A	A
Trichlorethylene	B	B	B	B	B	B	D	A	D	B	D	A	A
Trichloroacetic Acid	B		D	D	D	B	C			D	D	A	A
Triethanolamine						B	C		B		B	A	A
Triethylanime	B						B				B	A	A
Trisodium Phosphate							A		B	B	A	A	A
Tung Oil	B	B	A	A	A	C	A	A	D	A	B	A	A
Turpentine	B	B	A	B	B	B	B	A	D	A	D	A	A
Urea	B	C	B	B	B	B	C	A	B	D	B	A	A
Uric Acid			A	A	A							A	A
Varnish	A	C	A	A	A	A	C	A	D	B	B	A	A
Vegetable Oils	B	B	A	A	A	B	A	A	D	A	B	A	A
Vinegar	B	D	A	A	A	B	D		A	D	D	A	A
Vinyl Acetate	B			A	B	B			A		B	A	A
Water, Distilled	A	D	A	B	A	A	C	A	B	A	B	A	A
Water, Fresh	A	C	A	A	A	A	C	A	B	A	B	A	A
Water, Acid Mine	D	D	B		B	D	C		A	A	C	A	A
Waxes	A	A	A	A	A	A	A	A	C	A	B	A	A
Whiskey & Wines	B	D	A	B	A	A	B	A	A	A	B	A	A
Xylene (Xylol), dry	A	B	A	A	A	A	D	A	D	B	D	A	A
Zinc Bromide	B			B	B	B	B		B	B	B	A	A
Zinc Hydrosulfite	C	A	A	A	A	B	A	A	A	A	A	A	A
Zinc Sulfate	B	D	B	B	B	B	A	A	A	A	A	A	A

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