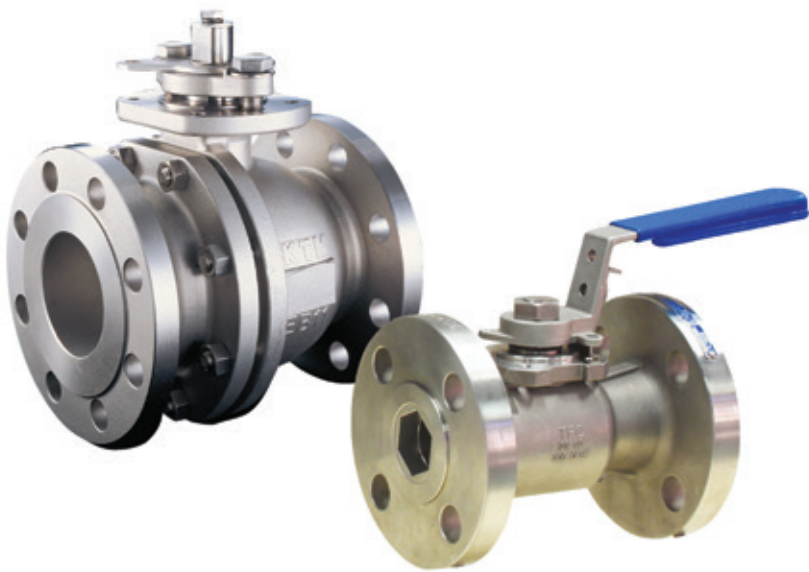




KTM BALL VALVES MATERIAL COMPATIBILITY

Complete material compatibility guide for the selection of the most appropriate trim materials



KEY

- A:** Excellent resistance - little or no change in mechanical properties or weight.
- B:** Good - In time there may be a deterioration in mechanical properties and/or a change in weight.
- C:** Poor - After a short period of time the material is attacked.
- U:** Unsuitable - Do not use.
- I:** Insufficient or no data on which to base a conclusive rating.

NOTE

The following information has been derived from published literature from plastics and polymer supplier and manufacturers. It is therefore intended as a guide only in selecting materials for specific sealing applications in our valves. As the seal material can be influenced by the concentration of the media, temperature, contact time and operating conditions, it must remain the 'users' responsibility for final material selection.

If in doubt we suggest that customers test seals under operating conditions to determine their suitability. No warranty is given against corrosion or erosion.



KTM BALL VALVES

MATERIAL COMPATIBILITY

Media	Carbon steel	316 Stainless steel	Acetal	Flexible graphite	Virgin/glass/carbon PTFE	Uhmwpe	Devlon v	Peek	Media	Carbon steel	316 Stainless steel	Acetal	Flexible graphite	Virgin/glass/carbon PTFE	UHMWPE	Devlon V	PEEK
Acetaldehyde	C	A	A	A	A	U	B	A	Barium carbonate	B	B	A	A	A	A	I	I
Acetate solvents	A	A	U	A	A	I	I	I	Barium chloride	C	B	A	A	A	A	A	A
Acetic acid, aerated	U	A	U	A	A	I	C	I	Barium hydroxide	C	B	A	A	A	I	I	I
Acetic acid, air free	U	A	U	A	A	I	I	I	Barium sulphate	C	A	A	A	A	A	A	I
Acetic acid, crude	C	A	U	A	A	I	I	I	Barium sulphide	C	B	A	A	A	A	I	A
Acetic acid, pure	U	A	U	A	A	C	I	B	Beer	U	A	A	A	A	A	B	A
Acetic acid, 10%	C	A	B	A	A	A	B	A	Beet sugar liquors	B	A	A	A	A	I	I	I
Acetic acid, 80%	C	A	U	A	A	C	C	I	Benzaldehyde	A	A	A	A	A	U	B	A
Acetic anhydride	U	B	C	A	A	C	I	I	Benzene (benzol)	B	B	C	A	A	U	A	A
Acetone	A	A	A	A	A	A	A	A	Benzoic acid	U	B	A	B	A	A	C	A
Other ketones	A	A	A	A	A	I	I	I	Blood (meat juices)	I	A	A	A	A	I	I	I
Acetylene	A	A	A	A	A	I	A	A	Borax (sodium borate)	C	A	A	A	A	A	A	I
Acid fumes	U	B	U	C	A	I	I	I	Borax liquors	C	B	A	A	A	I	A	I
Acrylonitrile	A	A	U	A	A	I	I	I	Boric acid	U	B	A	A	A	A	A	A
Air	A	A	A	B	A	A	A	I	Brines, saturated	U	B	A	A	A	A	I	A
Alcohol, amyl	B	A	A	A	A	I	A	I	Bromine, dry	U	U	U	B	A	U	I	C
Alcohol, butyl	B	A	A	A	A	I	A	A	Bunker oils (fuel)	B	A	A	A	A	D	I	I
Alcohol, diacetone	A	A	A	A	A	I	I	I	Butadiene	B	A	A	A	U	D	A	I
Alcohol, ethyl	B	B	A	A	A	A	A	A	Butane	B	A	A	A	A	A	A	A
Alcohols, fatty	B	A	A	A	A	I	I	I	Buttermilk	U	A	A	A	A	B	I	I
Alcohol, isopropyl	B	B	A	A	A	I	I	I	Butylene	A	A	A	A	A	I	I	I
Alcohol, methyl	B	A	A	A	A	I	A	A	Butyric acid	U	B	A	A	A	U	B	I
Alcohol, propyl	B	A	A	A	A	I	A	I	Calcium bisulphite	U	B	U	A	A	I	I	A
Aluminium chloride, dry	C	C	A	A	A	A	I	A	Calcium carbonate	U	B	A	B	A	A	I	A
Aluminium chloride solution	I	U	U	A	A	A	I	I	Calcium chlorate	I	B	U	B	A	A	I	I
Aluminium hydroxide	U	A	C	A	A	A	A	I	Calcium chloride	C	B	A	A	A	A	B	A
Aluminium potassium sulphate	I	B	U	A	A	A	I	I	Calcium hydroxide	C	B	A	A	A	A	I	A
Aluminium sulphate	U	B	U	A	A	A	I	A	Calcium sulphate	C	B	A	A	A	A	I	A
Amines	B	A	C	A	A	I	A	I	Caliche liquor	B	A	A	A	A	I	I	I
Ammonia, alum	I	A	C	A	A	I	I	I	Cane sugar liquors	I	A	A	A	A	I	I	I
Ammonia, anhydrous liquid	A	A	U	A	A	I	I	A	Carbonated beverages	U	B	A	A	A	I	A	I
Ammonia, aqueous	A	A	U	A	A	I	A	A	Carbonated water	B	A	A	A	A	A	A	I
Ammonia, gas, hot	I	A	U	A	A	A	B	I	Carbon bisulphide	B	B	A	A	A	U	I	I
Ammonia solutions	B	A	U	A	A	I	A	B	Carbon dioxide, dry	A	A	A	A	A	A	A	A
Ammonium acetate	I	B	U	B	A	I	I	I	Carbonic acid	U	B	A	A	A	I	A	A
Ammonium bicarbonate	C	B	A	A	A	A	A	I	Carbon monoxide	I	A	A	I	A	A	I	A
Ammonium carbonate	B	B	U	A	A	A	A	I	Carbon tetrachloride, dry	B	A	A	A	A	U	A	A
Ammonium chloride	U	C	C	A	A	A	I	A	Carbon tetrachloride, wet	U	B	B	A	A	U	A	A
Ammonium hydroxide 28%	C	B	U	A	A	A	A	A	Casein	I	B	A	A	A	I	A	I
Ammonium hydroxide concentrated	C	B	U	A	A	A	I	A	Castor oil	B	A	A	A	A	A	I	I
Ammonium nitrate	U	A	U	B	A	A	A	A	Caustic soda	B	A	U	A	A	I	I	I
Ammonium phosphate	U	B	C	A	A	A	A	I	Cellulose acetate	I	B	C	A	A	I	I	I
Ammonium phosphate Di-basic	U	B	A	A	A	I	I	I	China wood oil (tung)	C	A	A	A	A	I	I	I
Ammonium phosphate Tri-basic	U	B	A	A	A	I	I	I	Chlorinated solvents	C	A	A	A	A	I	I	B
Ammonium sulphate	C	B	B	A	A	A	A	I	Chlorinated water	I	C	U	B	A	C	B	C
Ammonium sulphide	U	B	A	A	A	A	I	I	Chlorine gas, dry	B	B	U	A	A	U	I	C
Ammonium sulphite	C	A	A	A	A	I	I	I	Chlorobenzene, dry	B	A	B	A	A	U	A	A
Amyl acetate	C	B	A	A	A	A	A	A	Chloroform, dry	B	A	A	A	A	I	D	A
Aniline	C	B	U	A	A	A	C	A	Chlorophyll, dry	I	B	I	A	A	I	I	I
Aniline dyes	C	A	A	A	A	I	I	I	Chlorosulphonic acid, dry	B	B	U	A	A	U	D	C
Apple juice	U	B	A	A	A	I	I	A	Chrome alum	B	A	B	A	A	A	A	I
Aqua regia (strong acid)	U	B	U	U	A	C	C	C	Chromic acid < 50%	U	C	U	A	A	A	C	A
Aromatic solvents	C	A	A	A	A	I	A	A	Chromic acid > 50%	U	C	U	A	A	I	C	A
Arsenic acid	U	B	U	A	A	A	I	I	Chromium sulphate	I	B	C	A	A	I	I	I
Asphalt emulsion	B	A	A	A	A	I	A	I	Citric acid	U	B	A	A	A	A	C	C
Asphalt liquid	B	A	A	A	A	I	B	I	Citrus juices	U	B	A	A	A	I	I	I

KTM BALL VALVES

MATERIAL COMPATIBILITY

Media	Material Compatibility							Media	Material Compatibility								
	Carbon steel	316 Stainless steel	Acetal	Flexible graphite	Virgin/glass/carbon PTFE	UHMWPE	Devlon V		PEEK	Carbon steel	316 Stainless steel	Acetal	Flexible graphite	Virgin/glass/carbon PTFE	UHMWPE	Devlon V	PEEK
Coconut oil	C	B	A	A	A	A	A	I	Formic acid, hot	U	B	U	A	A	A	C	A
Coffee extracts, hot	C	A	A	A	A	I	I	I	Freon gas, dry	B	A	C	A	A	I	I	I
Coke oven gas	B	A	U	A	A	I	I	I	Freon 11, MF, 112, BF	I	A	C	A	I	I	I	A
Cooking oil	B	A	A	A	A	I	I	A	Freon 12,13, 32,114,115	I	A	B	A	I	I	A	A
Copper acetate	U	A	U	A	A	I	I	A	Freon 21, 31	I	A	U	A	I	I	I	I
Copper cyanide	I	A	A	A	A	A	I	A	Freon 22	I	I	U	A	I	I	I	A
Copper nitrate	U	B	A	A	A	A	I	A	Freon 113, TF	I	A	B	A	I	I	I	A
Copper sulphate	U	B	A	A	A	A	A	A	Freon, wet	I	C	B	A	A	I	I	I
Corn oil	C	B	A	A	A	A	I	I	Fruit juices	U	A	A	I	A	A	B	A
Cottonseed oil	C	B	A	A	A	A	I	I	Fuel oil	B	A	A	A	A	U	A	A
Creosote oil	B	B	U	A	A	U	I	A	Furfural	A	A	U	A	A	I	A	I
Cresylic acid	C	B	U	A	A	A	D	I	Gallic acid 5%	U	B	B	I	A	A	I	I
Crude oil, sour	B	A	A	A	A	I	A	A	Gas, manufactured	B	B	A	A	A	I	I	A
Crude oil, sweet	B	A	A	A	A	I	A	A	Gas, natural	B	A	A	A	A	I	A	A
Cutting oils, water emulsions	B	A	A	A	A	I	A	I	Gas, odourisers	B	B	B	A	A	I	I	I
Cyclohexane	A	A	A	A	A	C	A	A	Gelatin	U	A	A	A	A	A	I	A
Detergents, synthetic	I	B	A	A	A	A	A	A	Glucose	B	A	A	A	A	A	I	I
Dextrin	I	B	A	A	A	A	I	I	Glue	A	B	A	A	A	A	I	I
Dichloroethyl ether	I	B	U	I	A	I	I	I	Glycerine (glycerol)	C	A	C	A	I	A	A	I
Diesel oil fuels	A	A	A	A	A	I	A	A	Glycol amine	I	B	A	A	I	I	I	I
Diethylamine	A	A	A	A	A	I	I	A	Glycol	C	B	B	A	A	A	I	A
Diethylene glycol	I	A	A	A	A	A	A	I	Graphite	I	B	B	A	A	I	I	I
Diethyl sulphate	I	B	A	A	A	I	I	I	Grease	A	A	A	A	A	I	I	I
Dimethyl formamide	I	A	A	A	A	I	A	A	Helium gas	I	A	B	A	A	A	A	I
Dioxane	I	B	C	A	A	I	A	A	Heptane	B	A	A	A	A	C	A	A
Disodium phosphate	I	B	A	A	A	A	I	I	Hexane	B	A	A	A	A	U	A	A
Dowtherm	B	A	A	A	A	I	I	I	Hexanol, tertiary	A	A	A	A	A	A	I	I
Drilling mud	B	A	A	A	A	I	I	I	Hydraulic oil, petroleum base	A	A	A	A	A	I	I	A
Dry cleaning fluids	B	A	A	A	A	I	I	I	Hydrocyanic acid	U	A	U	I	A	A	I	A
Drying oil	C	B	A	A	A	I	I	I	Hydrofluosilicic acid	U	C	A	A	A	I	I	I
Epsom salts (MgSo4)	C	B	A	A	A	I	I	I	Hydrogen gas, cold	B	A	A	A	A	A	A	A
Ethane	C	B	A	A	A	I	I	A	Hydrogen gas, hot	B	B	A	A	A	A	I	A
Ethers	A	A	C	A	A	U	A	A	Hydrogen peroxide, concentrated	U	B	U	U	A	C	D	A
Ethyl acetate	B	B	C	A	A	C	A	A	Hydrogen peroxide, dilute	U	B	D	C	A	A	C	A
Ethyl acrylate	C	A	B	A	A	I	I	I	Hydrogen sulphide, dry	B	A	C	A	A	A	B	A
Ethyl chloride, dry	B	A	A	A	B	U	I	I	Hydrogen sulphide, wet	C	B	C	A	A	A	B	I
Ethyl chloride, wet	U	B	A	A	A	U	I	I	Hypo (sodium thiosulphate)	U	B	A	A	A	I	I	I
Ethylene chloride	I	A	A	A	A	I	B	I	Illuminating gas	A	A	A	A	A	I	I	I
Ethylene dichloride	I	B	C	A	A	U	B	A	Ink-newsprint	U	A	A	A	A	A	I	I
Ethylene glycol	B	B	A	A	A	A	B	A	Iodoform	B	A	A	I	A	I	I	I
Ethylene oxide	B	B	A	A	A	C	A	A	Iso-octane	A	A	A	A	A	I	I	A
Ethyl ether	I	A	A	A	A	I	I	I	Isopropyl acetate	I	B	A	A	A	I	I	I
Ethyl silicate	I	B	A	A	A	I	I	I	Isopropyl ether	A	A	A	A	A	I	A	I
Fatty acids	U	A	B	A	A	A	A	I	J P-4 fuel	A	A	A	A	A	I	I	I
Ferric nitrate	U	C	A	A	A	A	I	A	J P-5 fuel	A	A	A	A	A	I	I	I
Ferric sulphate	U	B	A	A	A	A	I	A	J P-6 fuel	A	A	A	A	A	I	I	I
Ferrous chloride	U	U	A	A	A	A	C	A	Ketones	A	A	A	A	A	I	B	A
Ferrous sulphate	U	B	A	A	A	A	I	A	Laquer (and solvent)	C	A	A	A	A	I	I	I
Ferrous sulphate, saturated	C	A	C	A	A	I	I	I	Lactic acid, concentrated, cold	U	A	U	A	A	A	I	A
Fertilizer solutions	B	B	B	A	A	I	A	I	Lactic acid, concentrated, hot	U	B	U	A	A	A	I	A
Fish oils	B	A	A	A	A	I	I	I	Lactic acid, dilute, cold	U	A	U	A	I	A	C	A
Flue gases	I	A	C	A	A	I	I	I	Lactic acid, dilute, hot	U	A	U	A	A	A	C	A
Fluorosilicic acid	U	B	C	I	A	A	D	I	Lactose	I	B	A	A	A	I	I	I
Formaldehyde, cold	A	A	B	A	A	A	B	A	Lard	I	A	A	A	A	A	I	I
Formaldehyde, hot	U	C	B	A	A	A	B	A	Lard oil	C	B	A	A	A	A	I	I
Formic acid, cold	U	B	U	A	A	A	C	A	Lead acetate	U	B	A	A	A	A	B	A

KTM BALL VALVES

MATERIAL COMPATIBILITY

Media	Material Compatibility							Media	Material Compatibility								
	Carbon steel	316 Stainless steel	Acetal	Flexible graphite	Virgin/glass/carbon PTFE	UHMWPE	Devlon V		PEEK	Carbon steel	316 Stainless steel	Acetal	Flexible graphite	Virgin/glass/carbon PTFE	UHMWPE	Devlon V	PEEK
Lead sulphate	I	B	A	A	A	I	I	I	A	A	A	A	A	A	A	A	
Lecithin	I	B	A	I	A	I	I	I	A	A	A	A	A	A	A	A	
Linoleic acid	B	A	A	A	A	I	I	I	B	A	A	A	A	A	A	I	
Linseed oil	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	I	
Lithium chloride	I	B	A	A	A	I	I	I	I	B	C	A	A	A	A	I	
LPG	B	B	A	A	A	I	A	I	C	B	C	A	A	C	A	A	
Lubricating oil, petroleum base	A	A	A	A	A	C	A	A	B	B	U	I	A	U	D	C	
Ludox	I	B	B	I	A	I	I	I	I	B	U	I	A	I	I	I	
Magnesium bisulphate	B	A	A	A	A	I	I	I	B	A	A	A	A	A	I	A	
Magnesium bisulphide	I	B	A	A	A	I	I	I	U	B	C	A	A	A	C	I	
Magnesium carbonate	I	A	A	A	A	A	I	I	B	A	U	U	A	A	A	A	
Magnesium chloride	C	B	A	A	A	A	A	A	Ozone, dry	A	A	C	I	A	C	C	A
Magnesium hydroxide	B	A	A	A	A	A	A	A	Ozone, wet	C	A	C	I	A	C	C	A
Magnesium hydroxide, hot	B	A	A	A	A	A	I	I	Paints and solvents	A	A	A	A	A	I	I	I
Magnesium sulphate	B	A	A	A	A	I	A	A	Palmitic acid	C	B	A	B	A	I	A	I
Maleic acid	B	B	A	A	A	A	I	A	Palm oil	C	B	A	B	A	A	I	I
Malic acid	U	B	A	A	A	I	A	I	Paraffin	B	A	A	A	A	C	A	A
Manganese sulphate	I	A	A	A	A	I	I	I	Paraformaldehyde	B	B	A	A	A	I	I	I
Mayonnaise	U	A	A	A	A	I	I	I	Paraldehyde	I	B	A	A	A	I	I	I
Mercuric chloride	U	B	A	A	A	A	C	A	Pentane	B	A	A	A	A	I	I	A
Mercuric cyanide	U	A	A	A	A	A	I	I	Perchlorethylene, dry	B	A	B	A	A	I	B	A
Mercury	A	A	A	A	A	A	A	A	Petroleum, aviation	A	A	C	A	A	U	A	A
Methane	B	A	A	A	A	I	A	A	Petroleum, leaded	A	A	C	A	A	U	A	A
Methyl acetate	B	A	B	A	A	I	A	I	Petroleum, motor	A	I	C	A	A	U	A	A
Methyl acetone	A	A	B	A	A	I	I	I	Petroleum, refined	B	A	C	A	A	U	A	A
Methylamine	B	A	A	A	A	I	A	I	Petroleum, sour	B	A	C	A	A	U	A	A
Methyl cellosolve	B	A	A	A	A	I	I	I	Petroleum, unleaded	A	A	C	A	A	U	A	A
Methyl chloride	B	A	A	A	A	U	C	I	Phenol	U	A	C	A	A	U	I	A
Methyl ethyl ketone	A	A	A	A	A	U	I	A	Phosphate ester 10%	A	A	A	A	A	I	I	I
Methylene chloride	B	A	A	A	A	U	C	A	Phosphoric acid 10%	U	U	U	A	A	A	B	A
Methyl formate	C	B	A	A	A	I	I	I	Phosphoric acid 50%, cold	U	B	U	A	A	A	C	A
Milk and milk products	U	A	A	A	A	B	A	A	Phosphoric acid 50%, hot	U	U	U	A	A	A	C	A
Mineral oils	B	A	A	A	A	U	A	A	Phosphoric acid 85%, cold	B	A	U	A	A	A	I	A
Mineral spirits	B	B	A	A	A	U	A	I	Phosphoric acid 85%, hot	C	B	U	A	A	A	I	A
Mixed acids, cold	C	B	U	I	A	I	I	I	Phosphoric anhydride	I	A	B	A	A	I	I	I
Molasses, crude	A	A	A	A	A	B	I	A	Phosphorous trichloride	B	A	U	A	A	A	I	I
Molasses, edible	C	A	A	A	A	B	I	A	Phthalic acid	C	B	B	A	A	I	B	A
Mustard	B	A	A	A	A	I	I	I	Phthalic anhydride	C	B	A	A	A	A	I	I
Naptha	B	B	A	A	A	U	A	A	Picric acid	U	B	U	I	A	A	I	A
Napthalene	B	B	A	A	A	U	A	A	Pineapple juice	C	A	A	A	A	I	I	I
Natural gas, sour	B	A	A	A	A	A	A	I	Pine oil	B	A	A	A	A	U	I	I
Nickel ammonium sulphate	U	A	C	A	A	I	I	I	Potassium bisulphite	U	B	A	A	A	I	I	I
Nickel chloride	U	B	U	A	A	A	I	A	Potassium bromide	U	A	A	A	A	A	A	A
Nickel nitrate	U	B	C	B	A	A	I	A	Potassium carbonate	B	B	A	A	A	A	A	A
Nickel sulphate	U	B	C	A	A	A	A	I	Potassium chlorate	B	B	A	C	A	A	I	A
Nicotinic acid	B	A	C	A	A	A	I	I	Potassium chloride	C	B	A	A	A	A	A	A
Nitric acid 10%	U	A	U	A	A	A	C	A	Potassium cyanide	B	B	A	A	A	A	I	I
Nitric acid 30%	U	A	U	B	A	A	D	A	Potassium dichromate	C	B	A	I	A	A	B	A
Nitric acid 80%	U	C	U	C	A	U	C	C	Potassium ferricyanide	C	A	A	A	A	A	A	A
Nitric acid 100%	U	A	U	U	A	U	I	C	Potassium ferrocyanide	C	B	A	A	A	A	A	A
Nitric acid anhydrous	U	A	U	U	A	I	I	I	Potassium hydroxide, dilute cold	A	B	U	A	A	A	A	A
Nitrobenzene	B	A	B	A	A	U	C	A	Potassium hydroxide to 70%, cold	B	B	U	A	A	A	C	A
Nitrogen	A	A	A	A	A	A	I	A	Potassium hydroxide, dilute hot	B	B	U	A	A	A	A	A
Nitrous acid 10%	U	B	B	A	A	I	I	A	Potassium hydroxide to 70%, hot	A	B	U	A	A	A	C	A
Nitrous gases	B	A	B	A	A	I	I	I	Potassium iodide	C	B	A	A	A	I	I	I
Nitrous oxide	B	B	A	B	A	A	I	A	Potassium nitrate	B	B	A	B	A	A	A	A

KTM BALL VALVES

MATERIAL COMPATIBILITY

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	Carbon steel	316 Stainless steel	Acetal	Flexible graphite	Virgin/glass/carbon PTFE	UHMWPE	Devlon V		PEEK	Carbon steel	316 Stainless steel	Acetal	Flexible graphite	Virgin/glass/carbon PTFE	UHMWPE	Devlon V	PEEK
Potassium permanganate	B	B	A	I	A	A	D	A	Sodium phosphate Di-basic	C	B	A	A	A	I	I	I
Potassium phosphate Di-basic	A	A	A	A	A	I	I	I	Sodium phosphate Tri-basic	C	B	A	A	A	I	I	I
Potassium sulphate	B	A	A	A	A	A	A	A	Sodium polyphosphate	I	B	I	A	A	I	I	I
Potassium sulphide	B	A	A	A	A	A	A	A	Sodium silicate	B	B	A	A	A	A	A	A
Potassium sulphite	B	A	A	A	A	A	A	I	Sodium silicate, hot	C	B	A	A	A	A	I	A
Producer gas	B	B	A	B	A	I	A	I	Sodium sulphate	B	A	A	A	A	A	A	A
Propane gas	B	B	A	A	A	A	A	A	Sodium sulphide	B	B	A	A	A	A	A	A
Propyl bromide	I	B	A	A	A	I	I	I	Sodium sulphite	I	A	A	A	A	A	A	A
Propylene glycol	B	B	C	A	A	A	I	I	Sodium thiosulphate	B	B	A	A	A	I	A	I
Pyrogallic acid	B	B	A	I	A	I	I	I	Soybean oil	C	A	B	A	A	A	I	I
Quench oil	B	A	A	A	A	I	I	I	Starch	C	B	A	A	A	A	I	A
Resins and rosins	C	A	A	A	A	I	I	I	Steam (100oC)	A	A	U	A	A	A	C	A
Road tar	A	A	A	A	A	I	A	I	Stearic acid	C	B	A	A	A	A	A	I
Roof pitch	A	A	A	A	A	I	A	I	Styrene	A	A	A	A	A	I	A	A
Rosin emulsion	C	A	A	A	A	I	I	I	Sugar liquids	B	A	A	A	A	A	I	I
RP-1 fuel	A	A	A	A	A	I	I	I	Sulphate, black liquor	C	B	C	A	A	I	I	I
Rubber latex emulsions	B	A	A	A	A	I	I	I	Sulphate, green liquor	C	B	A	A	A	I	I	I
Rubber solvents	A	A	C	A	A	I	I	I	Sulphate, white liquor	C	B	U	A	A	I	I	I
Salad oil	C	B	A	A	A	I	I	I	Sulphur	C	B	A	A	A	A	A	A
Salicylic acid	U	A	A	A	A	A	D	I	Sulphur chlorides	U	U	A	A	A	I	I	A
Salt (NaCl)	C	B	A	A	A	A	I	I	Sulphur dioxide, dry	B	A	A	A	A	A	B	A
Salt brine	I	B	A	A	A	A	I	I	Sulphur dioxide, wet	I	A	U	A	A	A	B	A
Sea water	U	B	A	A	A	A	A	I	Sulphur, molten	C	B	U	A	A	I	I	I
Sewage	C	B	B	A	A	A	I	A	Sulphur trioxide	B	B	U	U	A	I	I	A
Shellac	A	A	A	A	A	I	I	I	Sulphur trioxide, dry	B	B	A	U	A	I	I	I
Silicone fluids	I	B	A	A	A	C	A	A	Sulphuric acid 0 to 77%	U	C	U	A	A	B	C	A
Silver cyanide	I	A	U	A	A	I	I	I	Sulphuric acid 100%	C	A	U	U	A	U	D	C
Silver nitrate	U	A	A	B	A	A	A	A	Sulphurous acid	U	B	C	A	A	A	U	I
Soap solutions (stearates)	A	A	A	A	A	I	A	A	Tall oil	B	B	A	A	A	I	I	I
Sodium acetate	C	B	A	A	A	A	B	A	Tannic acid (tannin)	C	B	A	A	A	A	I	A
Sodium aluminate	C	A	A	A	A	I	I	I	Tar and tar oils	A	A	A	A	A	I	B	A
Sodium bicarbonate	C	B	B	A	A	A	A	A	Tartaric acid	U	A	A	A	A	A	B	A
Sodium bisulphate 10%	U	A	U	A	A	A	B	I	Tetraethyl lead	C	B	A	A	A	I	I	A
Sodium bisulphite 10%	U	A	U	A	A	A	I	A	Toluol (toluene)	A	A	C	A	A	U	I	A
Sodium borate	C	B	A	A	A	A	I	I	Tomato juice	C	A	A	A	A	I	I	I
Sodium bromide 10%	C	B	A	A	A	A	A	I	Transformer oil	A	A	A	A	A	C	A	A
Sodium carbonate (soda ash)	B	A	A	A	A	A	A	A	Tributyl phosphate	A	A	A	A	A	I	I	I
Sodium chlorate	C	B	A	B	A	A	A	A	Trichlorethylene	B	B	A	A	A	U	B	A
Sodium chloride	C	B	A	A	A	A	A	A	Tung oil	B	A	A	A	A	I	I	I
Sodium chromate	B	A	A	I	A	I	I	I	Turpentine	B	B	A	A	A	U	A	A
Sodium cyanide	B	A	A	A	A	I	A	I	Urea	C	B	A	A	A	A	A	A
Sodium fluoride	U	B	A	A	A	A	I	I	Uric acid	I	A	B	A	A	I	A	I
Sodium hydroxide 20%, cold	A	A	U	A	A	A	A	A	Varnish	C	A	A	A	A	I	I	A
Sodium hydroxide 20%, hot	B	A	U	A	A	A	A	A	Vaseline petroleum jelly	C	B	A	A	A	I	A	A
Sodium hydroxide 50%, cold	A	A	U	A	A	A	C	A	Vegetable oils	B	A	A	A	A	I	A	A
Sodium hydroxide 50%, hot	B	A	U	A	A	A	C	A	Vinegar	U	A	B	A	A	A	C	A
Sodium hydroxide 70%, cold	A	A	U	A	A	A	C	A	Water, distilled	U	A	A	A	A	A	A	A
Sodium hydroxide 70%, hot	B	A	U	A	A	A	I	A	Water, fresh	C	A	A	A	A	A	A	A
Sodium hypochlorite (bleach)	U	U	U	A	A	A	D	A	Water, acid mine	U	B	A	A	I	A	I	A
Sodium metasilicate, cold	C	A	A	A	A	I	I	I	Waxes	A	A	A	A	A	I	A	A
Sodium metasilicate, hot	U	A	A	A	A	I	I	I	Whiskey and wines	U	A	A	A	A	A	B	A
Sodium nitrate	B	A	A	I	A	A	A	A	Xylene (xylol), dry	B	A	A	A	A	U	A	A
Sodium nitrite	I	B	B	B	A	A	A	A	Zinc bromide	I	B	A	A	A	I	I	I
Sodium perborate	B	B	A	A	A	I	B	I	Zinc hydrosulphite	A	A	A	I	A	I	I	I
Sodium peroxide	C	B	A	A	A	I	I	A									
Sodium phosphate	C	B	B	A	A	A	A	I									

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