

TECHNICAL DATA

CORROSION RESISTANCE TABLE

For selection of suitable hose and fitting material you may refer this table for guideline which is accurate, however because of variables beyond our control, no guarantee of service generally can be given.

Rating Code :

- A - Suitable**
- B - Limited service**
- C - Not suitable**
- D - No information**

Service life is subject to following notes :-

1. Susceptible to intergranular corrosion.
2. May cause explosive reaction.
3. Susceptible to stress, corrosion, cracking.
4. Susceptible to pitting type corrosion
5. Discolours.
6. Concentration over 50% and / or temperature over 95 Deg. C refer to **Vinilgomma** technical department.

	CARBON STEEL	S.S. 321	S.S. 316	TEFLON
Acetaldehyde	B	A	A	A
Acetanilide	B	B	B	D
Acetic acid	C	B ¹	A ¹	A
Acetic acid, glacial	D	B	B	A
Acetic acid 30%	C	B	B	A
Acetic anhydride	C	B	B	A
Acetone	C	B	B	A
Acetophenone	A	B	B	D
Acetyl chloride	C	B	B	A
Acetylene	A	A	A	A
Acrylates	B	B	B	D
Acrylic acid	C	B	B	A
Acrylonitrile	A	A	A	A
Alcohols	A ¹	A	A	A
Alum	C	B	B	A
Alum acetate	D	A	A	A
Alumina	A	A	A	A
Aluminium acetate	C	B	B	A
Aluminium bromide	C	B	B	A
Aluminium chloride dry	B	A	A	A
Aluminium chloride-moist	C ¹	C ^{1,2}	C ¹	A
Aluminium fluoride	B	C	C	A
Aluminium hydroxide	B	A	A	A
Aluminium nitrate	C	A	A	A
Aluminium salts	D	B	B	A
Aluminium sulphate	C	B ^{1,2}	A ¹	A
Ammonia-dry	A	A	A	A
Ammonia-moist	C ¹	A	A	A
Ammonium acetate	A	A	A	A
Ammonium bi carbonate (hot)	D	A	A	A
Ammonium bromide	C	C ¹	C ¹	D
Ammonium carbonate	A	A	A	D
Ammonium chloride-dry	B	A	A	A
Ammonium chloride-moist	C	C ^{1,2}	C ¹	A
Ammonium hydroxide	B	A	A	A
Ammonium meta phosphate	A	A	A	A
Ammonium nitrate	C ¹	A	A	A
Ammonium nitrite	D	A	A	D
Ammonium perchlorate (10%)	D	A	A	D
Ammonium persulphate	D	A	A	D
Ammonium phosphate	C	B	A	A
Ammonium sulphate	C	C ¹	B	A
Ammonium Thiocyanate	A	A	A	A
Amyl acetate	A	A	A	A
Amyl alcohol	A	A	A	A
Amyl chloride-dry	B	A	A	A
Amyl chloride-moist	C	C ^{1,2}	C ¹	A
Amyl chloronaphthalene	D	A	A	A

	CARBON STEEL	S.S. 321	S.S. 316	TEFLON
Amyl naphthalene	D	A	A	A
Aniline	C	B	B	A
Aniline dyes	C	B	B	A
Aniline hydrochloride	D	C	C	A
Animal fats	A	A	A	A
Aqua regia	D	C	C	A
Arsenic acid	B	D	A	A
Askarel	A	A	A	D
Asphalt	A	A	A	A
Atmosphere-industrial	C	B ¹	A ¹	A
Atmosphere-marine	C	B ¹	B ¹	C
Atmosphere-rural	C	A	A	A
Barium carbonate	B	B	B	A
Barium chloride-dry	A	A	A	A
Barium chloride-moist	B	C ^{1,2}	C ¹	A
Barium hydroxide	B	B	A	A
Barium nitrate-moist	D	A	A	A
Barium sulphate	B	B	B	A
Barium sulphide	C	B	B	A
Beer	C	A	A	A
Beet sugar syrups	B	A	A	A
Benzaldehyde	C	B	B	A
Benzene (Benzol)	A	A	A	A
Benzene sulfonic acid	C	D	B	A
Benzine	A	A	A	A
Benzoic acid	C	A	A	A
Benzlamine	B	B	B	A
Benzyl alcohol	A	A	A	A
Benzyl benzonate	A	A	A	A
Benzyl chloride-dry	B	A	A	A
Benzyl chloride-moist	C	C ^{1,2}	C ¹	A
Bismuth Carbonate	A	A	A	A
Blast furnace gas	A	A	A	C
Black liquor, sulphate process	C	B	B	A
Bleaching powder-dry	C	A	A	A
Bleaching powder-moist	C	C ^{1,2}	C ^{1,2}	A
Borax	B	A	A	A
Bordeaux mixture	B	A	A	A
Boric acid	C	A	A	A
Boron trichloride-dry	A	B	B	A
Boron trichloride-moist	B	C ^{1,2}	C ¹	A
Boron trifluoride-dry	A	B	B	D
Brines	C	C ^{1,2}	C ¹	A
Bromic acid	C	C	C	D
Bromic-dry	C	B	B	A
Bromic-moist	C	C	C	A
Bunker oil	A	A	A	A
Butter oil	A	A	A	A

CORROSION RESISTANCE TABLE

	CARBON STEEL	S.S. 321	S.S. 316	TEFLON
Butadiene	A	A	A	A
Butane	A	A	A	A
Butanol (Butyl alcohol)	A ⁺	A	A	A
Butyl acetate	B	A	A	A
Butyl amine	A	A	A	D
Butyl carbitol	A	A	A	A
Butyl phenols	B ⁺	B	B	D
Butyl mercaptan	D	A	A	A
Butyl stearate	A	A	A	A
Butylaldehyde	D	D	D	A
Butylamine	A	A	A	A
Butyric acid	C	B	B	A
Cadmium chloride-moist	C	C ³⁺	C ²	A
Cadmium chloride-dry	A	A	A	A
Cadmium sulphate	B	A	A	A
Calcium acetate	A	A	A	A
Calcium bisulphite	B	B ⁺	B	A
Calcium bromide	C	C ²	C ³	D
Calcium carbonate	A	A	A	A
Calcium chlorate	D	B	A	D
Calcium chloride-moist	C	C ³⁺	C ³	A
Calcium chloride-dry	A	A	A	A
Calcium chloro hypochlorite	C	B	B	A
Calcium fluoride	C	C	C	A
Calcium hydrochlorite	D	C	B	A
Calcium hydroxide	C	B	B	A
Calcium hypochlorite-moist	C	C ³⁺	C ³⁺	A
Calcium hypochlorite-dry	B	A	A	A
Calcium nitrate	C ¹	B ⁺	B	A
Calcium oxide	A	A	A	A
Calcium silicate	A	A	A	A
Calcium sulphate	A	A	A	A
Calcium sulphide	A	A	A	A
Camphor	D	A	A	D
Cane sugar syrups	B	A	A	A
Carbolic acid (phenol)	C	B	A	A
Carbon dioxide-dry	A	A	A	A
Carbon dioxide-moist	C	A	A	A
Carbonate deverages	C	A	A	A
Carbonated water	C	A	A	A
Carbon disulphide	B	B	B	D
Carbon tetrachloride-dry	B	A	A	A
Carbon tetrachloride-moist	C	C ³⁺	C ³	A
Carbon monoxide	A	A	A	A
Carbonic acid	D	A	A	A
Castor oil	A	A	A	A
Caustic soda	B	A	A	A
Cellosolve acetate	A	A	A	A
Cellessolve butyl	A	A	A	A
Cellulube	A	A	A	A
Chlorine-dry	B	A	A	A
Chlorine-moist	C	C ³⁺	C ³	A
Chlorine trifluoride	C	D	D	D
Chloroacetic acid	C	C ³⁺	C ³	A
Chloric acid	C	C ³	C ³	A
Chlorinated water (saturated)	B	D	D	A
Chlorine dioxide-dry	B	A	A	A
Chlorin Dioxide-moist	C	C ³⁺	C ³	A
Chlorobenzene	A	A	A	A
Chlorobromo methane	A	A	A	A
O Chloronaphthalene	A	A	A	A
Chloro sulphonic acid dilute	C	A	A	A
Chloro toluene	A	A	A	A
Chloroform-dry	A	A	A	A
Chloroform-moist	C	C ³⁺	C ³	A
Chromic acid	C	C ³⁺	B	A
Chromic fluorides	C	C	C	D
Chromic hydroxide	B	B	B	D
Chromium sulphate	C	B	B	D
Cider	C	A	A	A
Citric acid	C	B	B	A
Cod liver oil	A	A	A	A
Coffee	C	A	A	A
Coke oven gas	A	A	A	D
Copper acetate	D	A	A	A
Copper chloride-dry	B	A	A	A

	CARBON STEEL	S.S. 321	S.S. 316	TEFLON
Copper chloride-moist	C	C ³⁺	C ³	A
Copper cyanide	D	A	A	A
Copper nitrate	C	A	A	A
Copper sulphate	C	B ⁺	B	A
Corn oil	A	A	A	A
Corn syrup	A	A	A	A
Cottonseed oil	A	A	A	A
Creosole	A	A	A	A
Cresote	B	A	A	A
Crude oil	C	C ¹	B	A
Crude wax	A	A	A	A
Cutting oil	A	A	A	A
Cyanogen gas	D	A	A	D
Cyclohexane	B	B	B	A
Cyclohexanone	D	A	A	A
Cymene	D	D	D	A
DDT	C	A	A	A
Decalin	D	D	D	A
Denatured alcohol	A	A	A	A
Diancelone	A	A	A	A
Diacetone alcohol	A	A	A	A
Dibenzyl Ether	A	A	A	A
Dibutyl Ether	A	A	A	A
Dibutyl phthalate	A	A	A	A
Dibutyl sebacate	D	D	D	A
Dichlorobenzene	D	A	A	A
Dichloroethane-dry	A	A	A	A
Dichloroethane-moist	C	C ⁴	C ⁴	C
Dichloroethylene-dry	B	A	A	A
Dichloroethylene-moist	C	C ⁴	C ⁴	A
Dichlorophenol	C	B ⁺	B ⁺	A
Diesel oil	A	A	A	A
Dirthylamine	C	D	B	A
Diethyl Ether	A	A	A	A
Diethylene glycol	A	A	A	A
Diethylene phthalate	D	A	A	A
Diethyl sebacate	D	A	A	A
DI-iso butylene	D	A	A	D
DI-iso propyl keton	D	A	A	A
Dimethyl aniline	D	D	D	A
Dimethyl Formamide	A	A	A	D
Dimethyl phthalate	D	D	D	A
Disocyanate	B	A	A	A
Dimethyl sulphate	B	B	B	D
Diocetyl phthalate	A	A	A	A
Dioxane	A	A	A	A
Dipentane	A	A	A	A
Epichlorohydrin-dry	C ⁴	A	A	A
Epichlorohydrin-moist	C ⁴	C ³⁺	C ³	D
Epsom Salt (mg sulphate)	D	A	A	A
Ethane	A	A	A	A
Ethanol	C	A	A	A
Ethanol Amine	A	A	A	A
Ethers	A	A	A	A
Ethyl acetate	A	A	A	A
Ethyl aceto acetate	A	A	A	A
Ethyl Acrylate	A	A	A	D
Ethylene	A	A	A	A
Ethyl Cellulose	A	A	A	A
Ethyl benzene	B	B ⁺	B	A
Ethyl chloride-dry	A	A	A	A
Ethyl chloride-moist	C	C ³⁺	C ³	A
Ethyl ethers	B	A	A	A
Ethyl mrcaptan	B	D	D	A
Ethyl pento chlorobenzene	B	A	A	A
Ethyl silicate	A	A	A	A
Ethylene	A	A	A	A
Ethylene Chloride	B	A	A	A
Ethylene chlorohydrin-dry	B	A	A	A
Ethylene chlorohydrin-moist	C	C ⁴	C ⁴	A
Ethylene diamine	B	B	B	A
Ethylene glycol	A	A	A	A
Ethylene oxide	B	A	A	A
Fatty acids	C	B ^{1,4}	A	A
Ferric chloride-dry	B	A	A	A
Ferric Chloride-moist	C	C ^{1,3,4}	C ^{3,4}	A

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	CARBON STEEL	S.S. 321	S.S. 316	TEFLON
Ferric hydroxide	D	A	A	A
Ferric nitrate	C	B	B	A
Ferric sulphate	C	B ⁺	A	A
Ferrous chloride-dry	B	A	A	A
Ferrous chlorid-moist	C	C ³⁺	C ²	A
Ferrous nitrate	D	A	A	A
Ferrous sulphate	C	B ⁺	B	A
Fluoroboric acid	D	A	A	A
Fluorine-dry	A	A	A	A
Fluorine-moist	C	C	C	A
Formaldehyde	B ⁺	B	B	A
Formic acid	C	B	A	A
Freon	C	A	A	B
Fruit juices	C	A	A	A
Fuel oil	C	A	A	A
Fumaric acid	D	A	A	D
Furan Furfuran	A	A	A	A
Furfural	B	A	A	A
Gallic acid	C	A	A	A
Gasoline	B	A	A	A
Gelatine	C	A	A	A
Glauber's Salt	A	A	A	D
Glucose	B	A	A	A
Glue	C	A	A	A
Glutamic acid	C	B ³⁺	B ³⁺	A
Glycerin (glycerol)	B ⁺	A	A	A
Glycols	A	A	A	A
Green sulphate liquor	A	A	A	A
Heptane	A	A	A	A
Hexachloroethane-dry	B	A	A	A
Hexachloroethane-moist	C	C ⁴	C ¹	D
Hexal dehye	A	A	A	A
Hexane	A	A	A	A
Hexene	A	A	A	A
Hexyl alcohol	A	A	A	A
Hydraulic oil	A	A	A	A
Hydrazine	C	A	A	A
Hydrobromic acid	C	C ¹	C	A
Hydrocarbon acid	C	A	A	A
Hydrocarbons, pure	A	A	A	A
Hydrochloric acid	C	C ⁴	C ²	A
Hydrocyanic acid	C ³	C ^{1,4}	C ¹	A
Hydrofluoric acid	C	C ^{1,2}	C	A
Hydrofluorsilicic acid	C	C	C	A
Hydrogen	A	A	A	A
Hydrogen chloride-dry	B	A	A	A
Hydrogen chloride-moist	C	C ¹	C ¹	A
Hydrogen peroxide	C	B	B	A
Hydrogen sulfide-dry	B	A	A	A
Hydrogen sulfide-moist	C ³	B ⁺	A	A
Hydroquinone	B ⁺	B	B	D
Hypo	D	A	A	A
Imol	A	A	A	A
Ink	D	B	A	D
Iodine	D	C	D	D
Isobutyl Alcohol	A	A	A	A
Iso octane	A	A	A	A
Isopropyl acetate	A	A	A	A
Isopropyl alcohol	A	A	A	A
Isopropyl ether	A	A	A	A
Kerosene	B	A	A	A
Ketchup	D	A	A	A
Ketones	D	A	A	A
Lacquers	A	A	A	A
Lacquer solvents	A	A	A	A
Lactic acid	C	B ³⁺	B ¹	A
Lard	A	A	A	A
Lead molten	C	B	A	D
Lead acetate	B	A	A	A
Lead nitrate	A	A	A	D
Lime	B	A	A	A
Lime Bleach	C	B	A	D
Lime-sulphur	C	B	B	B
Linoleic acid	D	D	D	A
Linseed oil	B	A	A	A
Lithium chloride-dry	B	A	A	A

	CARBON STEEL	S.S. 321	S.S. 316	TEFLON
Lithium chloride-moist	B	C ³⁺	C ²	A
Lithium hydroxide	B	B	B	A
Lubricating oil	A	A	A	A
Magnesium chloride-dry	B	A	A	A
Magnesium chloride-moist	C	C ³⁺	C ²	A
Magnesium hydroxide	A	A	A	A
Magnesium sulphate	B	B	A	A
Maleic acid	B	B ¹	A	A
Mayonnaise	D	A	A	A
Mercuric chloride-dry	B	A	A	A
Mercuric chloride-moist	C	C ³⁺	C ²	A
Mercurous nitrate	B	B	B	D
Mercury	B	B	B	A
Mesityl oxide	A	A	A	A
Methane	A	A	A	A
Methyl acetate	A	A	A	A
Methyl acrylate	D	A	A	D
Methyl alcohol	A	A	A	A
Methyl bromide	A	A	A	A
Methyl butyl ketone	A	A	A	D
Methyl chloride-dry	A	A	A	A
Methyl chloride-moist	C	C ³⁺	C ¹	A
Methylene chloride	A	A	A	A
Methyl ethyl ketone	B	B	B	A
Methyl formate	A	A	A	A
Methyl isobutyn ketone	A	A	A	A
Methyl methacrylate	A	A	A	A
Methyl salicylate	A	A	A	A
Milk	C	A	A	A
Mine water	C	B	B	A
Mono chloro benzene	A	A	A	A
Mono ethanolamine	A	A	A	D
Morpholine	D	A	A	A
Naphtha	B	A	A	A
Naphthalene	A	A	A	A
Naphthenic acid	D	B	A	A
Natural gas	A	A	A	A
Nickle acetate	A	A	A	A
Nickle chloride-dry	B	A	A	A
Nickle chloride-moist	C	C ³⁺	C ²	A
Niter cake	C	B	A	D
Nitric acid	C	B	B	A
Nitroluene	B	B	B	A
Nitrogen	A	A	A	A
Nitrogen tetroxide	D	D	B	D
Nitro benzene	A	A	A	A
Nitro ethane	A	A	A	D
N-octane	A	A	A	A
Octyl alcohol	A	A	A	A
Oils crude	A	A	A	A
Oils Vegetables	A	A	A	A
Oils minerals	A	A	A	A
Oleic Acid	C	B ⁺	B	A
Oleum (fuming H2so4)	B ⁺	B	B	A
Oleum spirits	C	D	D	A
Olive oil	B	B	A	A
Oxalic Acid	C	C ¹	B ¹	A
Oxygen	A	A	A	A
Ozone	A	A	A	A
Paint	D	A	A	A
Palmitic acid	C	A	A	A
Parafin	B	A	A	A
Paregoric compound	C	A	A	A
Peanut oil	A	A	A	A
Pentane	B	B	B	A
Perchloric acid	D	B	A	A
Perchlore ethylene	A	A	A	A
Petroleum	A	A	A	A
Petroleum ether	D	A	A	A
Phenol (carbolic acid)	C	B	A	A
Phorone	A	A	A	A
Phosphate esters	A	A	A	A
Phosphoric acid	C	C ¹	B ⁺	A
Phthalic acid	C	B ¹	B	A
Pitric acid	C	B	B	A
Pinene	A	A	A	A

CORROSION RESISTANCE TABLE

	CARBON STEEL	S.S. 321	S.S. 316	TEFLON
Pine oil	A	A	A	A
Plating solution Chrome	D	C	C	A
Potassium acetate	D	A	A	A
Potassium bichromate	B	A	A	A
Potassium bromide	C	C	C	A
Potassium carbonate	B	A	A	A
Potassium chloride-dry	A	A	A	A
Potassium chloride-moist	C	C ^{1,4}	C ³	A
Potassium chromate	C	B	B	A
Potassium cyanide	B	B	B	A
Potassium dichromate	C	A	A	A
Potassium ferricyanide	C	A	A	A
Potassium fluoride	C	C	C	A
Potassium hydroxide	B ³	B ¹	A	A
Potassium iodide	B	A	A	A
Potassium nitrate	B	B	A	A
Potassium permanganate	B	B	B	A
Potassium sulphate	C	B	B	A
Progallie acid	B	A	A	D
Propane	A	A	A	A
Propyl acetate	A	A	A	D
Propyl alcohol	A	A	A	A
Propylene	A	A	A	A
Propylene oxide	C	A	A	A
Propylene dichloride-dry	B	A	A	A
Propylene dichloride-moist	C	C ¹	C ¹	A
Pyridine	B ³	B	B	A
Pyrrolidine	B	B	A	A
Quinine	C	B	B	A
Quinine sulphate-dry	C	A	A	A
Rosin	C ³	A	A	A
Rosin molten	C	A	A	A
Red Oil	B	B	A	A
Salicylic acid	D	A	A	D
Sauerkraut Brine	D	C	A	A
Sea water	C	A	A	A
Sewage	B	A	A	A
Silicon greases	A	A	A	D
Silicon oils	A	A	A	D
Silver salts	C	B	B	A
Silver nitrate	C ³	B	A	A
Skydrol 500 & 7000	A	A	A	A
Soap solutions	B	A	A	A
Sodium	A	A	A	A
Sodium acetate	B	B ¹	B	A
Sodium bicarbonate	C	A	A	A
Sodium bisulphate	C	B ^{1,4}	A	A
Sodium bisulphite	C	B	B	A
Sodium borate	A	A	A	A
Sodium bromide	B	C	C	A
Sodium carbonate	B	A	A	A
Sodium chlorate-dry	A	A	A	A
Sodium chlorate-moist	C	C ^{1,4}	C ³	A
Sodium chloride-dry	B	A	A	A
Sodium chloride-moist	C	C ^{1,4}	C ³	A
Sodium chromate	B	A	A	A
Sodium citrate	B	B	B	A
Sodium cyanide	B	B	B	A
Sodium dichromate	C	A	A	A
Sodium fluoride	B	C ¹	C	A
Sodium hydroxide	B ³	B ¹	B ³	A
Sodium hypochlorite-dry	B	A	A	A
Sodium hypochlorite-most	C	C ^{1,4}	C ³	A
Sodium metaphosphate	C	A	A	A
Sodium metasilicate	B	A	A	A
Sodium nitrate	B ³	A	A	A
Sodium nitrite	B	B	B	A
Sodium perborate	C	A	A	A
Sodium peroxide	C	A	A	A
Sodium phosphate	C	A	A	A
Sodium silicate	B	A	A	A
Sodium sulphate	B	B ¹	B	A
Sodium sulphide	C	B ¹	B	A
Sodium sulphite	C	B	B	A
Sodium thiosulphate	C	B	B	A
Soya bean oil	A	A	A	A

	CARBON STEEL	S.S. 321	S.S. 316	TEFLON
Stannic chloride-dry	B	A	A	A
Stannic chloride-moist	C	C ^{1,4}	C ³	A
Stannous chloride-dry	B	A	A	A
Stannous chloride-moist	C	C ^{1,4}	C ³	A
Starch Aqua Solution	A	A	A	A
Steam	C	A	A	A
Stearic acid	C ²	B	B	A
Stoddard solvent	B	A	A	A
Strontium nitrate	C	B	B	A
Styrene	B	D	B	A
Sulphate black liquor	B	B	B	A
Sulphate green liquor	B	B ¹	B	A
Sugar solutions	B	A	A	A
Sucrose solution	A	A	A	A
Sulphur - dry	B	A	A	A
Sulphur - molten	C	C	B	D
Sulphur chloride-dry	C	A	A	A
Sulphur chloride-moist	C	C ^{1,4}	C ³	A
Sulphur dioxide-dry	C	C ¹	B	A
Sulphur dioxide-moist	C	C ¹	B	A
Sulphur trioxide-dry	C	A	A	A
Sulphuric acid, 95-100%	B	A	A	A
Sulphuric acid, 80-95%	C	B	B	A
Sulphuric acid, 40-80%	C	C ¹	C ³	A
Sulphuric acid, 40%	C	C ¹	C ³	A
Sulfurous acid	C	C ^{1,4}	C ³	A
Tail Oil	B	B	B	A
Tannic acid	C ³	B	B	A
Tar	B	A	A	A
Tar bituminous	A	A	A	A
Tartanic acid	C	B	B	A
Terpineol	D	D	D	A
Tetraphosphoric acid	C	B	B	A
Tin molten	B	B	B	D
Titanium Tetra chloride	A	B	B	D
Toluene	B	A	A	A
Toluene Diisocyanate	D	D	D	D
Transformer oil	A	A	A	A
Transmission fluidtype	A	A	A	A
Tributoxyethyl phosphate	A	D	D	A
Tributyl phosphate	A	D	D	A
Trichloro acetic acid	C	C ^{1,4}	C ³	A
Trichloroethane-dry	A	A	A	A
Trichloroethane-moist	C	C ¹	C ³	A
Trichloroethylene-dry	A	A	A	A
Trichloroethylene-moist	C	C ¹	C ³	A
Tricresyl phosphate	A	D	B	A
Tung oil	A	A	A	A
Turpentine	B	A	A	A
Uric acid	B	A	A	A
Varnish	B	A	A	D
Vegetable juices	C	A	A	A
Vegetable oil	A	A	A	A
Versilube	A	A	A	A
Vinegar	C	A	A	A
Cinyl chloride	B	A	A	A
Water, potable	C	A	A	A
Whisky	C	B	A	A
Wine	C	B	A	A
Wood pulp	A	A	A	A
Wort	A	A	A	A
Xylene	B	B	B	A
Yeast	A	A	A	A
Zinc acetate	A	A	A	A
Zinc chloride-dry	A	A	A	A
Zinc chloride-moist	C	C ^{1,4}	C ³	A
Zinc molten	C	C	C	D
Zinc sulphate	C	B	A	A