

Temp: °C	Aluminium Bronze			Brass (a)			Copper			Copper-Nickel 90/10 alloys (b)			Gunmetal and Bronze (c)		
	20°	60°	100°	20°	60°	100°	20°	60°	100°	20°	60°	100°	20°	60°	100°
Phosphoric acid(20%)	R	R	R	X	X	X	R	R	R	R	R	X	X	X	X
Phosphoric acid(50%)	R	R	R	X	X	X	X	X	X	R	R	X	X	X	X
Phosphoric acid(95%)	R	R	R	X	X	X	X	X	X	R	X	X	X	X	X
Phosphoruschlorides	R(11)	R(11)	R(11)	X	X	X	X	X	X	R	X	X	X	X	X
Phosphorouspentoxide	No Data			X	X	X	X	X	X	No Data			X	X	X
Phthalic acid	R	R	R	No Data			R	R	R	R	R	R	R	R	R
Picric acid	X	X	X	X	X	X	X	X	X	R	R	R	R	R	R
Pyridine	No Data			X	X	X	X	X	X	No Data			X	X	X
Salicyl aldehyde	No Data														
Sea water	R	R	R	R(62)	R	R	R	R	R	R	R	R	R	R	R
Silicic acid	R	R	R	No Data			R	R	R	X	X	X	No Data		
Silicone fluids	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Silver nitrate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sodium carbonate	R	R	R(4)	R	R	R	R	R	R	R	R	R	R	R	R
Sodium peroxide	X	X	X	X	X	X	X	X	X	R	X	X	X	X	X
Sodium silicate	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Sodium sulphide	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stannic chloride	R(11)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Starch	R	R	X	No Data			R	R	R	R	R	R	R	R	R
Sugar soln, syrups, jams	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Sulphamic acid	No Data			X	X	X	X	X	X	No Data			X	X	X
Sulphates (Na, K, Mg, Ca)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Suphites	R	R	R	X	X	X	R	R	R	R	R	R	R	R	R
Sulphonic acids	No Data						X	X	X	No Data					
Sulphur	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sulphur dioxide, dry	R	R	R	R	R	R	R	R	R	R	R	X	R	R	R
Sulphur dioxide, wet	R	R	R	X	X	X	X	X	X	X	X	X	X	X	X
Sulphur dioxide, (96%)	R	R	R	X	X	X	R(20)	R(20)	X	R	R(20)	X	R(20)	R(20)	R(20)
Sulphur trioxide	R(11)b	R	R	R(11)	R	R	R(11)	R	R	R(11)	R	X	R(11)	R	R
Sulphuric acid(<50%)	R	R	R	X	X	X	R	R	R	R	X	X	X	X	X
Sulphuric acid(70%)	R	R(62)	X	X	X	X	X	X	X	R	X	X	X	X	X
Sulphuric acid(95%)	R(62)	X	X	X	X	X	X	X	X	R	X	X	X	X	X
Sulphuric acid, fuming	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sulphur chlorides	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tallow	R	R	R	No Data			R	R	R	R	R	R	No Data		
Tannic acid (10%)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Tartaric acid	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Trichlorethylene	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Urea (30%)	R	R	X	R	R	X	R	R	X	R	R	X	R	R	No data
Vinegar	R	R	R	X	X	X	X	X	X	R	R	R	X	X	X
Water, distilled	R(53)	R	X	X	X	X	R(53)	R	X	R	R	R	R(53)	R	R
Water, soft	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Water, hard	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Wetting agents(to 5%)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Yeast	No Data						R	R	R	No Data			R	R	R
Zinc chloride	R	R	R	X	X	X	X	X	X	X	X	X	X	X	X

Footnotes:

(a) Brass: Some types of brass have less corrosion resistance than is shown on the chart, others have more, e.g. Aluminium brass

(b) Copper-nickel alloys: Based on behaviour of Cu/Ni 90/10; 70/30 may be generally more resistant

(c) Gunmetal: The data refer only to high tin gunmetals

(2) Depending on the acid

(4) Fair resistance

(11) Anhydrous

(20) Not aerated solutions

(30) Depending on composition

(36) Over 85%

(53) In absence of dissolved O2 and CO2

(60) May discolour liquid/ product

(62) Depending on type

(73) Not ammonium

(82) Provided more than 70% copper

(83) Water less than 150ppm

(119) Pure solution

(175) With stabiliser

