



Technical

Suggested Sheath Materials (con't)

Compound	Copper	Lead	Aluminum	Nickel	Iron and Steel	Cast Iron NI Resist	300 Series Stainless	Monel	Inconel Incoloy
Nitrobenzene	2	—	—	—	1	—	1	—	—
Oakite No. 20	—	—	—	—	1	—	—	—	—
Oakite No. 23	—	—	—	—	1	—	—	—	—
Oakite No. 24	—	—	—	—	1	—	—	—	—
Oakite No. 30	—	—	—	—	1	—	—	—	—
Oakite No. 32	—	—	—	—	—	—	—	—	—
Oakite No. 33	—	—	—	—	—	1-347	—	—	—
Oakite No. 36	—	—	—	—	—	—	—	—	—
Oakite No. 51	—	—	—	—	1	—	—	—	—
Oakite No. 90 @ 180°F	—	—	—	—	1	—	—	—	—
Oleic acid	x	x	1	1	3	3	1	1	1
Oxalic acid	3	x	1	—	3	3	3	1	—
Paraffin	—	—	—	—	1	—	—	—	—
Parkerizing	—	—	—	—	3	2	1	—	—
Perchloroethylene	—	—	—	—	—	—	1	—	—
Permachlor	—	—	—	—	—	—	1	—	—
Petroleum oils, crude									
<500°F	3	3	1	3	1	1	1	3	—
>500°F	x	x	1	x	1	1	1	x	—
<1000°F	x	x	x	x	x	—	3	x	—
	—	—	—	—	—	—	1-347	—	—
Phenol 85%, 120°F	—	—	—	1	3	—	1	—	—
Phosphoric acid									
Crude	x	3	x	x	3	—	3	x	—
Pure <45%	2	1	3	3	x	—	1	2	—
>45% Cold	2	1	x	3	x	—	1	2	—
>45% Hot	3	x	x	—	x	—	x-304	3	—
	—	—	—	—	—	—	3-316	—	—
Photo fixing bath	—	—	—	—	—	—	1	3	—
Picric acid water solution	x	x	x	x	3	—	1	3	—
Potassium chloride	1	1	3	1	1	1	1	1	—
Potassium cyanide	x	x	x	—	1	—	1	1	—
Potassium dichromate 208°F	—	—	—	—	—	—	1-347	—	—
Potassium hydroxide	x	x	x	1	3	1	2	1	—
Potassium sulphate	1	1	1	1	1	1	2	1	—
Prestone 350°F	—	—	—	—	1	—	—	1	—
R5 Bright Dip for copper polish @ 180°F	—	—	—	—	—	—	1-316	—	—
Soap solutions	3	1	—	—	1	1	1	1	—
Sodium carbonate <20%	—	—	—	—	1	—	—	—	—
Sodium chloride	2	1	x	1	1	1	2-304	1	1
	—	—	—	—	—	—	1-316	—	—
Sodium cyanide	x	x	x	—	1	3	1-316	2	—
Sodium hydroxide	x	2	x	1	1	1	2	1	1
Sodium hypochlorite	3	x	x	3	x	3	x	3	—
Sodium nitrate	2	1	1	1	1	1	2-304	1	1
	—	—	—	—	—	—	1-316	—	—
Sodium peroxide	—	—	1	1	3	1	1	1	—
Sodium silicate	3	x	x	1	1	1	1-316	1	—
Sodium sulphate	1	1	3	1	1	1	1	1	1
Sodium sulphide	x	1	x	2	1	1	1	2	1
Soybean oil	—	—	—	—	—	—	1	—	—
Steam									
<500°F	1	3	1	1	1	—	1	1	1
500-1000°F	3	x	3	3	3	—	1	3	1
>1000°F	x	—	x	x	x	—	1	x	1
Stearic acid	3	1	3	1	3	3	1	1	1

Resistance Ratings: 1 = Good 2 = Fair 3 = Depends on Conditions x = Unsuitable