Technical

Suggested Sheath Materials (con't)

Compound	Copper	Lead	Aluminum	Nickel	Iron and Steel	Cast Iron NI Resist	300 Series Stainless	Monel	Inconel Incoloy
Sulphur	x	—	1	x	1	3	2	x	1
Sulphuric acid<10%									
Cold	3	1	3	3	x	—	2	3	—
Hot	x	1	3	x	x	—	2-316	3	—
	—	—	—	—	—	—	x-304	—	—
10-75% Cold	x	1	3	3	x	—	x-304	3	—
	—	—	—	—	—	—	2-316	—	—
Hot	x	1	x	x	x	—	x	3	—
75-95% Cold	x	1	3	3	3	—	1	3	—
Hot	x	1	x	x	2	—	x	3	—
Fuming	x	1	3	x	3	2	3-304	x	—
	—	—	—	—	—	—	2-316	—	—
Sulphurous acid	3	1	3	x	1	—	3-316	x	—
	—	—	—	—	—	—	x-304	—	—
Tannic acid	1	x	x	1	—	—	2	1	—
Tar	—	—	1	—	1	—	1	—	1
Tartaric acid	—	1	1	3	—	—	3-304	3	—
	—	—	—	—	—	—	1-316	—	—
Tetrachlorethylene	—	—	—	—	1	—	—	—	—
Thermoil Granodine™	—	—	—	—	2	—	—	—	—
Therminol™									
Fr. 1-8-12W/Sq.In.640°F	—	—	—	—	1	—	—	—	—
Tin plating	—	—	—	1	—	—	—	—	—
Toluene	—	1	1	—	1	—	1	1	—
Triad solvent	—	—	—	—	3	—	—	—	—
Trichloroethylene	3	2	3	—	3	3	3	1	—
Turco No. 2623	—	—	—	—	1	—	—	—	—
Turpentine	3	1	1	—	3	1	1	1	—
Urea ammonia liquor 48°F	—	—	—	—	1	—	—	—	—
Vegetable oil	—	—	—	—	—	—	1	—	—
Vinegar	—	—	3	—	3	—	2-304	1	—
	—	—	—	—	—	—	1-316	—	—
Water, acid mine									
containing oxidizing salts	3	3	3	3	x	3	1	x	—
no oxidizing salts	—	—	1	—	3	1	x	1	—
Water, fresh	1	1	1	—	3	1	1	1	1
Distilled, Lab grade	x	x	1	1	x	x	1	3	1
Return condensate	1	1	1	—	1	1	1	1	1
Water, sea water	3	1	x	—	3	1	2	1	2
Whiskey and wines	1	—	—	—	x	3	2-304	1	1
	—	—	—	—	—	—	1-316	—	—
X-ray solution	—	—	—	—	—	—	1	—	—
Zinc chloride	x	1	x	—	3	3	x	1	—
Zinc plating	—	—	—	—	1	—	—	—	—
Zinc sulphate	x	—	3	—	3	1	1	1	1

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

Because so many Factors are beyond our Power to control we cannot be responsible for any electric immersion heater failure that can be attributed to corrosion. This is in view of any warranties, written or verbal, relative to heater performance in a corrosive environment.