

Media Being Heated	Element Sheath Material																*Notes		
	Iron & Steel	Gray Cast Iron	Cast Iron Ni-Resist	Aluminum	Copper	Lead	Monel 400	Nickel 200	304, 321, 347 Stn. Stl.	316 Stn. Stl.	Type 20 Stn. Stl.	Incoloy® 800	Inconel® 600	Titanium	Hastelloy B	Quartz		Graphite	Teflon®
Isoprep™ Acid Aluminum Cleaner #186									A										Note 1
Isopropanol	C				A		A	A	A	A		A							
Jetal™									A										Note 1
Kerosene	A			A	A		A	A	A	A	A	A					A		Note 2
Kolene									A										
Lacquer Solvent	F	A	A	A	F	A	F	F	A	A	A	F	F	A		A			Note 2
Lead Acetate	X	X		X	X	X	A	A	A	A	A	A	A	A		A	A		
Lead Acid Salts									A										Note 1
Lime Saturated Water	F	F		X	F	X	F	F	F	A	F	F	F			X	A		
Linseed Oil	X	A		F	F	X	F	F	A	A	A	F	F			A	X		Note 2
Magnesium Chloride	X	C	F	X	F	X	F	A	F	F	A	F	A	A		A	A		
Magnesium Hydroxide	A	A	A	F	A	A	F	A	A	A	A	A	A			A	A		
Magnesium Nitrate	F	F		F	F	C	F	F	F	F	F	F	X	F		A	A		
Magnesium Sulfate	F	F	F	F	F	A	A	A	F	F	A	F	A	A		A	A		
MacDermid™ M629																	A	A	Note 1
Mercuric Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	F		A	A		
Mercury	A	A	A	X	X	X	F	F	F	A	A	A	F	X		A			
Methyl Alcohol (Methanol)	F	F		C	F	F	A	A	F	A	A	F	A	A		A	A		Note 2
Methyl Bromide	C	C		X	F	F	F	F	A	A	A	F	F	A		A			
Methyl Chloride	C	C		X	A	C	C	C	C	C	C	C	C	A		A	A		
Methylene Chloride	X	C		C	C	F	C	F	C	F	A	C	F	A		A	A		
Mineral Oil	A	A		A	A	A	A	A	A	A	A	A	A	A		A	A		
Muriato																	A	A	Note 1
Naptha	A	F	F	A	A	A	A	A	A	A	A	A	A	A		A	A	A	Note 2
Napthalene	A	A	A	F	F	A	F	F	A	A	A	F	F	A					Note 2
Nickel Acetate Seal										A									Note 1
Nickel Chloride	X	X	X	X	X	C	C	X	X	C	C	C	F	F		A	A	A	Notes 1, 5
Nickel Copper Strike (Cyanide Free)									A	A									Note 1
Nickel Plate - Bright						A								A		A		A	Notes 1, 5
Nickel Plate - Dull						A										A		A	Notes 1, 5
Nickel Plate - Watts Solution														A		A		A	Notes 1, 5
Nickel Sulfate	X	X	X	X	F	F	C	F	F	F	F	C	F			A	A	A	
Nitric Acid, Crude	X				X	X	X	X	C	C		X	X			A		A	
Concentrated	X				X	X	X	X	F	F		X	X			A		A	
Diluted	X				X	X	X	X	A	A		X	X			A		A	
Nitric Hydrochloric Acid	X	X		X	X	X	X	X	X	X	X	X	X	X		A	A	A	
Nitric 6% Phosphoric Acid										C						A		A	Note 1
Nitric Sodium Chromate										A						A		A	Note 1
Nitrobenzene	A	A	A	A	F	X	A	A	A	A	A	A	A	A		A			Note 2
Oakite™ #67										A									Note 1
Oakite™ #20, 23, 24, 30, 51, 90	A																		
Oleic Acid	C	C	C	C	C	X	F	F	C	F	A	F	A	F		A	A	A	



CORROSION POLICY

TEMPCO cannot warrant any electric immersion heater against failure by sheath corrosion if such failure is the result of operating conditions beyond the control of the heater manufacturer. The facts and recommendations appearing in the TEMPCO catalog or any other literature published by TEMPCO are based on our own research and the research of others, and are believed to be accurate. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used.

We accept NO responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. It is the responsibility of the Purchaser to make the ultimate choice of sheath material based on his/her knowledge of the chemical composition of the corrosive solution, character of materials entering the solution, and controls, which he/she maintains, on the process.

