Engineering Data



	Element Sheath Material																		
	<pre>x Iron & Steel x Gray Cast Iron x Cast Iron Aluminum x Cast Iron Aluminum x Copper x Cop</pre>																		
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	10	Grav Cleel	Se	Alum:	Coppe	Lead	Monci		04	16	12	່ / ວິ	, / ວິ	ita,	tas,	Quart.	Gr _{anks}	Teflon®	*Notes
				C				F	/ '')	/ •9		~	F	/~	~			~	Notes
Sodium Bisulfate Sodium Bromide	X F	X C	Х	X	F F	C F	C F	F F	X C	X F	A F	F	F F			A	A	A	
Sodium Biolinde Sodium Carbonate	C F	C		Х	A	X	F	F	F	F	A	F	F	А		C A	A	A	
Sodium Calobilate	X	X		F	A	F	A	A	F	F	F	F	A	A		A	A	A	
Sodium Chloride	C	A X	F	Г	F	г F	A	F	Г	Г	г С	г F	A	C A		A	A	Α	
Sodium Citrate	X	X	1,	А	Г	Г	A	r	F	F	F	г	A	C		A	A	А	
Sodium Cyanide	C	л F	С	А	X	X	С	С	А	А	А	Α	A	С		A	A C	Α	
Sodium Dichromate		1	C	Λ	Λ	Λ			A	Π	Α	A	A	C		A	C		
(Sodium Bichromate)	F	F	F	С	X				F	F	F			С		A			
Sodium Hydroxide	1	-							1		-								
(See Caustic Soda)																			
Sodium Hypochlorite	X	Х	Х	Х	Х	Х	Х	X	X	Х	F	Х	X	Α	Α	A	Α	Α	
Sodium Nitrate	F	F	А	С	С	С	F	F	Α	Α	Α	Α	A	Α		A	Α		
Sodium Peroxide	F	Α	F	С	Х	Х	F	F	F	F	F		F						
Sodium Phosphate	C	С	F	Х	F	F	Α	C	F	Α	F	F	A	Α		A	Α	Α	
Sodium Salicylate	F	С	F		F		F	F	F	F	F	F	F			A	А	А	
Sodium Silicate	A	F	А	Х	F	Х	Α	Α	Α	А	А	Α	A	А		A	А	А	Note 4
Sodium Stannate	C	С	С				F	F	F	F	F	F	F			A		Α	
Sodium Sulfate	F	С		F	F	F	F	F	Х	F	F	F	F	С		Α	А	Α	
Sodium Sulfide	C	Х	С	С	Х	Α	F	F	Х	С	С	С	C	С		C	Α	Α	
Solder Bath	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Х		X	Х	Х	Note 4
Soybean Oil									Α										
Sannostar™																A		А	Note 1
Steam < 500°F	Α			Α	Α	С	Α	Α	Α			Α	A						
500° - 1000°F	C			С	С	Х	С	C	Α			Α	A						
> 1000°F	X			Х	Х		Х	Х	Α			А	Α						
Stearic Acid	C	С	С	С	Х	Х	F	F	С	Α	Α	F	F	F		A	Α		
Sugar Solution	Α	Α		А	Α	Α	А	Α	Α	А	Α	А	A	А		A	Α	А	Note 7
Sulfamate Nickel														А		A		А	Note 1
Sulfamic Acid	X	Х		Х					Х	Х						A		А	
Sulfur	C	Х	С	А	Х	X	F	C	C	F	F	Α	A	Α		A	Α		
Sulfur Chloride	X	Х	С	Х	Х	F	Х	C	C	Х	С	С	F			A	Х	Α	
Sulfur Dioxide	C	С		С	C	F	Х	X	C	F	F	C	C	A		A	A		
Sulfuric Acid < 10% Cold	X		Х	С	Α	F	F	C	Х	С	F		X						
Hot	X	Х	Х	С	Х	Х	Х	X	Х	Х	Х		F						
10 - 75% Cold	X			Х	F	F	С	C	Х	Х	F		X	Х					
Hot	X			Х	Х	F	С	Х	Х	Х	С		X	Х					
75 - 95% Cold	F	F	F	Х	F	F	X	X	F	F	F			X					
Hot	X	Х	Х	Х	Х	С	Х	X	Х	Х	Х			Х					
Fuming	C	Х	С	Х	Х	X	Х	Х	F	С	С	C	C						
Sulfurous Acid	X	X		C	X	A	X	X	X	C	F		C	A					
Tannic Acid	C	С		C	C	X	С	C	C	A	A		A	A		A			
Tar	A			A					A			A	A	-					
Tartaric Acid		X	F	С		C	F	C	C	A	F		F	F					

Since 1972



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.

