

## Recommended Sheath Materials

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®
Tetrachlorethylene	F	F		C	F	F	A	A	F	F	F	F	A	A		A			
Therminol™ FR1 8-12 W/Sq. In. 640°F	A																		
Thermoil Granodine™	F																		
Tin (Molten)	F	F		X	X	X	X	X	F	F	X		X	A			X	X	Note 4
Tin - Nickel Plating																A		A	Note 1
Tin Plating - Acid																	A	A	Note 1
Tin Plating - Alkaline	A								A										Note 1
Toluene	A	A	A	A	C	A	A	A	A	A	A	A	A	A					
Triad Solvent	C																		
Trichloroethane	A	C	C	F	F	F	F	F	A	F	F	F	F	A		A	A		
Trichloroethylene	F	C	C	F	C	X	C	C	F	F	F	F	A	A		A	A		
Triethylene Glycol	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A			
Trioxide (Pickle)																A		A	Note 1
Trisodium Phosphate	A	A		X	C	X	C	C	C	C	C					X	F	X	
Turco™ 2623	A																		
Turco™ 4008, 4181, 4338										A									Note 1
Turco™ Ultrasonic Solution										A									Note 1
Turpentine	C	C	C	A	F	A	A	A	A	A		A							
Ubac™																A			Note 1
Udylite #66													A		A		A		Notes 1, 5
Unichrome™ CR-110															A		A		Note 1
Unichrome™ 5RHS															A		A		Note 1
Urea Ammonia Liquor 48°F	A																		
Vegetable Oil	C		C	F	X	X	A	A	A	A	A	A							
Vinegar	C			C			A		F	A									
Water, Acid Mine Containing Oxidizing Salts	X		C	C	C	C	X	C	A										
No Oxidizing Salts	C		A	A			A		X										
Water, Deionized	X	X		X	X		A	A	A	A	A	A	A						Note 10
Demineralized	X	X		X	X		A	A	A	A	A	A	A						Note 10
Distilled	X	X			X	X	C	A				A	A						Note 10
Potable	X	C	A	A	A	X	A	A	C	F	A	A	A	A		A			
Return Condensate	A		A	A	A	A			A	A		A							
Sea	X	X	A	X	X	A	A		C	C	A	F	F	A		A	A		
Watt's Nickel Strike																A			Note 1
Whiskey and Wines	X		C		A		A	A	A	A	A	A							Note 2
Wood's Nickel Strike																A			Note 1
Yellow Dichromate										A						A			Note 1
X-Ray Solution									A										
Zinc (Molten)				X	X	X	X	X	X	X	X	X	X	X				X	
Zinc Chloride	C	C	C	X	X		F	F	X	X	F	X	F	C		A	A	A	
Zinc Phosphate										A								X	Notes 1, 5
Zinc Plating Acid																A			Note 1
Zinc Plating Cyanide	A								A										Note 1
Zinc Sulphate	C	X	A	C	F	A	F	C	C	C	C		F	A					
Zincate™	A								A										Note 1

### Corrosion Resistance Ratings:

**A = Good**      **F = Fair**      **C = Depends on Conditions**      **X = Unsuitable**  
**Blank = Data Not Available**

\* See Key to Notes in Material Selection Guide on Page 16-12.

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