

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®
Acetaldehyde					A					A	A								Note 2
Acetic Acid, Crude	X		C	F	F	X	F	F	F	F		C	C						
Pure			X	A	F	F	A	F				C	C						
Vapors			X	C	F	X	F	F				C	C	F					
150 PSI; 400°F				C	F	X	F	F				C	C						
Aerated	X	X	X	C	X	X	X	X	X	F	F		X	A					
No Air		X	X	C	F	X	A	F	C	F	F		X	A					
Acetone	C	X	F	F	A	A	A	A	A	A	A	A	A	A	A	A	A		Note 2
Actane™ 70																	A	A	Note 1
Actane™ 80																	A	A	Note 1
Actane™ Salt																	A		Note 1
Alboloy Process	A																		
Alcoa™ R5 Bright Dip																A		A	Note 1
Alcohol	F	F		F	A	A	A	A	F	A	A	A	A	A	A	A	A		Note 2
Allyl Alcohol		A	A	F	A	F	A	A	A	A	A	A	A						
Alcorite™														A					Note 1
Alkaline Cleaners									A										Note 1
Alkaline Soaking Cleaners	A																		Note 1
Alodine™										A									Note 1
Aluminum (Molten)	CONSULT TEMPCO																		
Aluminum Acetate	X	X			F	A	F	F	F	A	A		F	A	A				
Aluminum Bright Dip																A		A	Note 1
Aluminum Chloride	X	X		X	X	X	X	X	X	X	X	X	X	X	A	A	A	A	Note 1
Aluminum Cleaners	C	C		X	X	X	A	A	A	A	F	A	A	F		X	X		Notes 1, 9
Aluminum Potassium Sulfate (Alum)		X	X	X	A	F	F	F	X	C	F		F	F					
Aluminum Sulfate	X	X	X	X	X	F	X	X	F	F	F	X	X	A		A	A		Note 1
Ammonia	X	X		C	X	C	X	X	X	X	C	F	A	A	A	A			
Ammonia (Anhydrous) (Gas)	F				X				A	A									
Cold	C		A	A	A	F	A	A	A	A		A	A						
Hot	C		C		A	X	A	A	C	C	A		A						
Ammonia and Oil	A																		
Ammonium Acetate	A	F	F	A	X	X	A	A	A	A	A	A							
Ammonium Chloride	X	X	F	X	X	X	F	F	X	C	C	C	C		A	A	A		
Ammonium Hydroxide	F	F	F	C	X	F	X	A	A	A	A	A	A		X	A			
Ammonium Nitrate	F	X	C	F	X	X	X	X	A	A	A	X	X	X		A	A		
Ammonium Persulfate	X	X		X	X	C	X	X	F	F	F		X			A	A	A	
Ammonium Sulfate	X	X	F	X	X	F	F	F	C	F	F	F	F	A		A	A		
Amyl Acetate	F				A		A	A	A	A	A		A						
Amyl Alcohol	A	F	F	C	A		A	F	A304	A	A	A	A	A		A			Note 2
Aniline	F	A		F	X	F	F	F	A304	A	A	F	F	A		A	A		
Aniline, Oil	A			X	X					A	A								
Aniline, Dyes							A		A	A									

### 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.

