

Application	Solution	Solution Content (% by Volume)	Sheath Material	Watt Density (watts per sq. inch)	Max. Recommended Sheath Temperature
Water & Very Mild Solutions	Clean Water	pH6 to pH8 Neutral	Copper	45	350F
	Process Water & Very Weak Solutions	pH5 to pH9 2-3%	Stainless Steel or Incoloy	45	1200F
	Weak Solutions	5-6%	Incoloy	45	1200F
	Demineralized, De-Ionized or Pure Water		Incoloy with Stainless Steel Flange	45	1200F
Corrosive & High Viscous Solutions	Mild Corrosive Solutions	5-15%	Stainless Steel or Incoloy	23	1200F
	More Severe Corrosive Solutions	10-25%	Incoloy	23	1200F
	Severe Corrosive Solutions	30-60%	Incoloy with Stainless Steel Flange or Teflon	15	1200F
Oil	Light Weight Oil		Steel	23	750F
	Medium Weight Oil		Steel	15	750F
	Heavy Weight Oil		Steel	6.5	750F
Air, Gases & Steam	Low Temperature		Stainless Steel or Incoloy	23	1200F
	High Temperature		Incoloy	23	1400F

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