

Industrial Heating Systems - CHEMICAL RESISTANCE CHART

Because of the different chemical compositions from various manufacturers and each company's process specifications, this chart is to be used ONLY as an aid in the proper sheath selection. It is the responsibility of the individual company to conduct laboratory tests relating to their particular processes and heater sheath compatibility.

CHEMICAL NAME	SHEATH MATERIAL	CHEMICAL NAME	SHEATH MATERIAL	CHEMICAL NAME	SHEATH MATERIAL	CHEMICAL NAME	SHEATH MATERIAL	CHEMICAL NAME	SHEATH MATERIAL	CHEMICAL NAME	SHEATH MATERIAL
										Sodium Sulfide	Titanium,316SS
Acetic Acid	Quartz, PTFE	Black Oxide (290F)	316 SS All welded J box (DD)	Copper Strike	316SS	Iron Fluoroborate	PTFE	Oil (30wt)	316SS (DD)	Silver Bromide	316SS
Acid Sulfate	Quartz, PTFE	Black oxide (PC Boards)	Titanium	Copper Sulfate	316SS	Iron Phosphate	316SS (D)	Oleic Acid	Quartz, PTFE	Silver Cyanide	316SS
Actane	PTFE	Bonderizing	316SS(D)	Cyanide	316SS	Irdite,#4-75,4-73,14	316SS	Oakite #67	316 SS	Silver Lume	316SS
Actane 80	PTFE	Boric Acid	Titanium	DI water	316SS Electropolished,Titanium	Irdite 14-2,14-9,18-P	316SS	Oxalic Acid	Quartz,PTFE	Silver Nitrate	Titanium
Actane Salt	PTFE	Brass Cyanide	316SS	Diethylene Glycol	316SS	Irdite #1,2,3,4,-C,4PC&S	Quartz,PTFE	Paint Stripper	316 SS (D)	Stannate	316SS
Alodine	316SS,PTFE	Bright Nickel	Titanium(D)	Deoxidizer pH>5	Quartz,PTFE	Irdite 4P-4,4-80,4L-1	Quartz,PTFE	Paint Stripper Solvent	316SS (D)	Stearic Acid	316SS,Quartz
Alco Bright Dip R5	316SS	Bright Copper Cyanide	316SS	Dichromic Hot Seal	316SS	Irdite 4-2,4-2A, 4-2P	Quartz,PTFE	Perchlorethlene	316SS (D)	Sulfamate Nickel	Titanium (D),PTFE
Alcohol	316SS DD	Brown Cyanide	316SS	Diversey DS9333	Quartz,PTFE	Irdite 5P-1,8,7,7-P,8P	Quartz,PTFE	Phosphoric Acid	Quartz,PTFE	Sulfur	Titanium
Alcorite	Quartz, PTFE	Brown Oxide (PC Boards)	Titanium (D)	Diversey 511	Quartz,PTFE	Irdite 8-2,12-P,17P	Quartz,PTFE	Phosphate Cleaner	316SS (D)	Sulfuric Acid	Quartz, PTFE
Alkaline Soak	316SS	Butyl Amine	316SS	Diversey 514	PTFE	Irdite 15,18-P	Quartz,PTFE	Phosphate	316SS (D)	Sulfur Chloride	Quartz,PTFE
Aluminum Soak Cleaner	316SS	Butyric Acid	Titanium	Dow Therm A	316SS (D)	Irdite Dyes	PTFE	Phosphate,Iron	316SS (D)	Sulfurous Acid	Titanium,Quartz
Aluminum Cleaner (silicated)	316SS	Cadminum Black	Quartz,PTFE	Dye solutions ,Hot	316SS	Isoprep,187,188 Deox	316SS	Phosphatizing	316SS (D)	Sulphamic Acid	Quartz,PTFE
Aluminum Bright Dip	Quartz, PTFE,SS guard	Cadminum Florborate	PTFE	Electroless Nickel	316 SS (EP), Titanium,PTFE	Isoprep Cleaner	316SS	Potassium Acid Sulfate	Quartz,PTFE	Tannic Acid	Titanium, 316SS
Aluminum Chloride	Quartz,PTFE	Calcium Chlorate	316SS	Electroless Tin	Quartz	Isoprep 191 Acid Salts	PTFE	Potassium Cyanide	316SS	Tin Nickel	PTFE
Aluminum Sulfate	316SS	Calcium Chloride	Titanium	Electro Cleaner	316 SS	Jetal	316SS	Potassium Hydroxide	316SS(DD)PTFE	Tin Acid Plating	Quartz,PTFE
Ammonia	316 SS	Calcium Bisulfite	316SS	Electropolish	Quartz (D),PTFE	Lead Acetate	316SS	Potassium Hydrochloric	Quartz,PTFE	Tin Plating ,Alkaline	316 SS
Ammonia Persulfate	316SS	Calcium Hypochlorite	Titanium	Ethanol	316SS(D)	Lead Acid Salts	316SS	Reynolds Brightner	Quartz, with lead guard	Tranrite H-11	316SS (D) e/polish
Ammonium Bi-Fluoride	PTFE, Has -C Derated,316 EP	Carbon Disulfide	316SS	Enthone Acid 80	PTFE	Linseed Oil	316SS	Rhodium	Quartz	Trichlorethylene	316SS (D)
Ammonium Chloride	Titanium	Carbonic Acid	316SS	Ethylene Glycol	316SS(D)	Lime saturated ,water	316SS	Rochelle Salts Cyanide	316SS	Trioxide	Quartz,PTFE
Ammonium Hydroxide	Titanium	Caustic Cleaner	316SS (D)	Ferric Nitrate	Titanium	Magnesium Hydroxide	316SS	Ruthenium	Quartz	Turco 4181	316SS (D)
Ammonium Nitrate	316SS	Cellosolve	316SS	Ferric Sulfate	316SS	Magnesium Nitrate	Titanium	Salt Water (ocean SG)	316 SS (EP), Titanium,PTFE	Turco 4008	316SS (D) e/ polish
Ammonium Sulfate	Titanium	Chlorine(wet)	Quartz,PTFE	Ferric Ammonium Oxide	316SS	Magnesium Sulfate	316SS	Salt	PTFE	Turco 4338	316SS (D)
Ammonium Sulfite	TANTALUM	Chloride	Quartz,PTFE	Ferric Chloride	Titanium	McDermid 629	PTFE	Sodium Bisulfate	Titanium,316 SS	Turco Ultra Sonic Solution	316SS (D)
Aniline	316SS	Chlorobenzene	316SS	Fluoborate	PTFE	Mercuric Chloride	Titanium	Sodium Bromide	Quartz	Unichrome CR-110	Quartz
Anodize-Sulfuric	Quartz,PTFE,Lead	Chlorosulfonic Acid	Titanium	Formic Acid	316SS	Methane Chloride	Titanium	Sodium Carbonate	Titanium,316 SS	Unichrome SRHS	Quartz
ARP 80 Blacking Salts	Quartz,PTFE	Chromic Acid Anodize	Quartz, PTFE	Freon	316SS	Methanesulfonic Acid	PTFE	Sodium Chloride	316 SS,titanium	Water	316SS
ARP-28	PTFE	Chromic Acetate	Quartz,PTFE	Gold ,Immersion	316 SS	Methyl Bromide	PTFE	Sodium Citrate	Quartz,PTFE	Wood's Nickel Strike	Quartz ,Titanium (D)
Asphalt (liquid)	316SS DDD	Chromic Acid (no fluorides)	Titanium,Quartz	Gold , Acid	Quartz,PTFE	Muriatic Acid	Quartz,PTFE	Sodium Cyanide	Titanium	Yellow Dichromate	316SS
Barium Chloride	Titanium	Chromium	Titanium,Quartz	Gold Cyanide	316SS	Napatha	316SS	Sodium Dichromate	316SS, TIT, PTFE	Xylene	316SS
Barium Hydroxide	316SS	Citric Acid	Quartz,PTFE	Grey Nickel	Titanium (D)	Nickel Plating	Titanium ,Quartz (D)	Sodium Hydroxide	316SS(D) Titanium (D),PTFE	Zinc Acid	Quartz
Barium Sulfate	Titanium	Clear Chromate	316SS	Glycol	316SS	Nickel Acetate Seal	316SS	Sodium Hypochlorite	Quartz, Titanium, PTFE	Zinc Ammonium Chloride	Titanium,Quartz(D)
Benzaldehyde	Titanium	Cobalt Nickel	Titanium (D)	Glycerol	316SS	Niklad	316SS	Sodium Nitrate	Titanium,PTFE	Zincate	316SS
Benzene	Titanium	Cobalt Plating	Quartz,PTFE	Hot Seal Dichromate	316SS	Nitric Acid	Quartz,PTFE	Sodium Phosphate	316SS (DD)	Zeline	316SS
Benzenesulonic Acid	Titanium	Copper Acid	Titanium,Quartz,PTFE	Hydrochloric Acid	Quartz, PTFE	Nitric 6% /Phosphoric	PTFE	Sodium Salicyate	Quartz		
Benzoic Acid	Titanium	Copper,Bright Acid	Quartz,PTFE	Hydrofluoric Acid	PTFE	Nitric Hydrochloric	Quartz, PTFE	Sodium Silicate	316SS		
Black Nickel	Quartz (D),PTFE	Copper Cyanide	316SS	Indium	Quartz,PTFE	Nitric Sodium Chromate	Quartz,PTFE,316			If it is not on the list-- call us or e-mail your MSDS sheet and we can make an application choice for you.	



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