

Chemical Corrosion and Material Choice Guidance Chart		SchuFF FETTEROLF	
Chemical Medium	1) Carbon Steel	2) Stainless Steel	3) Duplex, Hastelloy, Alloy 20, Inconel, Nickel, Monel, Titanium etc.
Acetic acid, crude			316 stainless steel
Acetic acid, pure			Monel
Acetic anhydrate		Yes	
Acetone	Yes		
Aluminum chloride			High Density PE
Aluminum sulfate		Yes	
Alums		Yes	
Ammonia(gas)	Yes		
Ammonium chloride			High Density PE
Ammonium hydroxide	Yes		
Ammonium phosphate (monobasic)		Yes	
Ammonium phosphate (dibasic)		Yes	
Ammonium phosphate (tribasic)	Yes		
Ammonium sulfate		Yes	
Aniline	Yes		
Benzene, benzol	Yes		
Boric acid		Yes	
Bromine			Stainless steel lined with Monel, Kynar or Teflon
Calcium chloride			Nickel or Monel
Calcium hydroxide	Yes		
Calcium hypochlorite		Yes	
Caron tetrachloride		Yes	
Carbonic acid		Yes	
Chloroacetic acid			Stainless steel with PE lining
Chlorine, dry		Yes	
Chlorine, wet			Tantalum or Hastelloy
Chlorine, acid			Hastelloy
Critic acid		Yes	
Cooper sulfate		Yes	
Ethanol	Yes		
Ethylene glycol	Yes		
Fatty acid		Yes	
Ferric chloride			Stainless steel with epoxy coating
Ferric sulfate			Stainless Steel with PP Coating
Ferrous sulfate		Yes	
Formaldehyde		Yes	
Formic acid		Yes	316 Stainless steel
Glycerol	Yes		
Hydrocarbon (aliphatic)	Yes		
Hydrochloric acid			Stainless steel with epoxy coating
Hydrogen peroxide			Low carbon stainless steel with PE coating
Lactic acid		Yes	
Magnesium chloride			Nickel or Monel
Magnesium sulfate	Yes		
Metanol	Yes		
Nitric acid			Stainless steel with PP coating
Oleic acid		Yes	
Oxalic acid			Monel
Phenol (carbolic acid)		Yes	
Phosphoric acid		Yes	

