

Chemical Suitability Chart

E Series Electronic Metering Pump

Water Treatment / Conditioning

This information is offered as a guide to create a basis of recommendation. It is impossible to take into consideration the unlimited variations in physical properties that can affect a material's chemical resistance. Materials should be tested under actual service conditions to determine suitability for a particular application. Note: Most standard pumps are supplied with LLDPE tubing that is compatible with many chemicals, but not all. Ensure chemical compatibility with the tubing before use. Please visit www.walchem.com or consult factory for suitability ratings on any materials that do not appear in this bulletin.

Common Chemical	Recommended Liquid End Material	Alternate Material	Common Chemical	Recommended Liquid End Material	Alternate Material
Acetic Acid	FC	SH	Hydrogen peroxide (50%)	VC	TC, FC
Alcohol, isopropyl	PE	VE	Hydrofluosilicic Acid	VF	
Alcohol, methyl	PE	VE	Hydrofluoric Acid (HF)	VF (up to 65%)	
Alum (aluminum sulfate)	PC, PE	VC, VE	Isothiazolin	PC	TC, FC
Aluminum chloride	PC, PE	VC, VE	Lime (calcium hydroxide)	PE	VE
Aluminum sulfate (alum)	PC, PE	VC, VE	Methanol	PE	VE
Amines	PE	FC, SH	Muriatic Acid (Hydrochloric acid <37%)	VC	TC, FC
Ammonia	PE	VE	Nitric acid (68%)	TC	FC
Ammonium Hydroxide	VE	PE	Peracetic Acid	FC	TC, VC
Ammonium Phosphate	VC	PC, PE, VE	Phosphoric acid (50%)	VC	PC
Ammonium Sulfate	PC	VC	Potassium carbonate	VC	PC
Bromine water (salt)	TC	FC	Potassium hydroxide	PE	FC
Calcium carbonate	PC, PE	VC, VE	Potassium permanganate	VC	FC, TC
Calcium chloride	PC, PE	VC, VE	Soda ash (sodium carbonate)	PC, VC	VE
Calcium hydroxide (lime)	PE	VE	Sodium bicarbonate	PC	VC
Calcium hypochlorite	VC	VE	Sodium bisulfite/bisulfate	PC	VC
Caustic soda (sodium hydroxide)	VE	PE, FC	Sodium Bromide	PC	VC
Chlorine bleach (sodium hypochlorite)	VC	TC	Sodium carbonate (Soda ash)	PC, VC	VE
Chlorine Dioxide ($\leq 0.2\%$)	VC, TC (<70°F)	FC (>70°F/0.2-1%)	Sodium fluoride	VF	
Chromic acid (50%)	TC	PC, FC	Sodium hexametaphosphate	PC	VC
Copper Sulfate	VC	VE, PC, PE	Sodium hydroxide (caustic soda)	VE	PE, FC
Ethylene glycol	PE	SH	Sodium hypochlorite (chlorine bleach) <i>off Gas</i>	VC	TC
Ferric sulfate	PC	VC	Sodium nitrate	VC	VE
Ferric chloride	VC	VE	Sodium silicate (dilute)	PC	PE
Formaldehyde (>=40%)	PC	VC	Sodium Sulfite	VC	VE
Glutaraldehyde	FC	PC (<3%)	Sulfuric acid	FC, TC	VC (<50%)
Hydrochloric acid (>37%)	TC	FC, VC			

**UNDER NO CIRCUMSTANCES IS THE INFORMATION CONTAINED
HEREIN TO BE CONSTRUED AS A GUARANTEE.**