

FLOWTITE® CHEMICAL RESISTANCE GUIDELINES

CHEMICAL RESISTANCE

The following chemical resistance table is based on information supplied by resin manufactures as a general guide. It is not intended to imply approval for any given application, as neither the resin suppliers nor Iplex Pipelines have any control over the conditions of usage or the means of identifying all environmental conditions that may affect the selected pipes and fittings.

Using this guide:

All materials listed in **“green”** can be used with our current standard pipe resin systems. All materials listed in **“blue”** are in addition to the **“green”** materials that can be used in pipes that use the vinyl ester resin liner. All materials listed in **“red”** are not recommended and may not work in any type of FLOWTITE® pipe system.

*Current EPDM type gasket cannot be used. Other types of gasket materials i.e. Viton™ may be suitable. For further information please contact Iplex Pipelines.

**No FLOWTITE® Technology recommendation. Consult your local gasket supplier for compatibility.

CHEMICAL	STANDARD RESIN	VINYL ESTER RESIN	NOT RECOMMENDED
Acetic Acid <20%**		X	
Adipic Acid**		X	
Alum (Aluminium Potassium Sulphate) (45°C)	X		
Aluminium Chloride, Aqueous (40°C)	X		
Ammonia, Aqueous, <20%		X	
Ammonium Chloride, Aqueous (40°C)	X		
Ammonium Fluoride			X
Ammonium Nitrate, Aqueous (40°C)	X		
Ammonium Phosphate-Monobasic, Aqueous (40°C)	X		
Ammonium Sulphate, Aqueous (40°C)	X		
Aniline Hydrochloride		X	
Antimony Trichloride (40°C)**			X
Barium Carbonate**		X	
Barium Chloride (40°C)		X	
Barium Sulphate (40°C)		X	

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Beet Sugar Liquor		X	
Benzene Sulfonic Acid (10%)*		X	
Benzoic Acid*		X	
Black Liquor (Paper)		X	
Bleach			X
Borax (40°C)	X		
Boric Acid		X	
Bromine, Aqueous 5%*		X	
Butyric Acid, <25% (40° C)**		X	
Calcium Bisulfite*		X	
Calcium Carbonate		X	
Calcium Chlorate, Aqueous (40°C)**	X		
Calcium Chloride (Saturated) (40°C)	X		
Calcium Hydroxide, 100%		X	
Calcium Hypochlorite		X	
Calcium Nitrate (40° C)	X		
Calcium Sulphate NL AOC (40°C)	X		
Cane Sugar Liquors		X	
Carbon Dioxide, Aqueous (40°C)	X		
Carbon Tetrachloride			X
Casein	X		
Caustic Potash (KOH) (40°C)		X	
Chlorine, Dry Gas*		X	
Chlorine, Water*		X	
Chlorine Wet Gas**		X	
Chloroacetic Acid			X

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Citric Acid, Aqueous		X	
Copper Acetate, Aqueous (40°C)	X		
Copper Chloride, Aqueous (40°C)	X		
Copper Cyanide (30°C)		X	
Copper Nitrate, Aqueous (40°C)	X		
Copper Sulphate, Aqueous (40°C)	X		
Crude Oil (Sour) (30°C)*	X		
Crude Oil (Sweet) (30°C)*	X		
Crude Oil, Salt Water (25°C)*		X	
Cyclohexane (40°C)*		X	
Cyclohexanol (30°C)*		X	
Dibutyl Sebacate (25°C)	X		
Dibutylphthalate (25°C)	X		
Diesel Fuel (25°C)*	X		
Diocetyl Phthalate (40°C)**	X		
Ethylene Glycol (40°C)	X		
Ferric Chloride, Aqueous (40°C)	X		
Ferric Nitrate, Aqueous (30°C)	X		
Ferric Sulphate, Aqueous (40°C)	X		
Ferrous Chloride (30°C)	X		
Ferrous Nitrate, Aqueous (30°C)**	X		
Ferrous Sulphate, Aqueous (40°C)	X		
Formaldehyde			X
Fuel Oil (25°C)*	X		
Gas, Natural, Methane			X
Gasoline, Ethyl*		X	

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Glycerine		X	
Green Liquor, Paper		X	
Hexane (30°C)*	X		
Hydro bromic Acid			X
Hydrochloric Acid, up to 15% (25°C)	X		
Hydrofluoric Acid			X
Hydrogen Sulphide, Dry		X	
Kerosene*		X	
Lactic Acid, 10% (30°C)	X		
Lactic Acid, 80% (25°C)	X		
Lauric Acid (40°C)	X		
Lauryl Chloride**	X		
Lauryl Sulphate**	X		
Lead Acetate, Aqueous (25°C)	X		
Lead Nitrate, Aqueous (25°C)	X		
Lead Sulphate**	X		
Linseed Oil*	X		
Lithium Bromide, Aqueous (40°C)**	X		
Lithium Chloride, Aqueous (40°C)**	X		
Magnesium Bicarbonate, Aqueous (30°C)**	X		
Magnesium Carbonate (40°C)**		X	
Magnesium Chloride, Aqueous (40°C)	X		
Magnesium Nitrate, Aqueous (40°C)	X		
Magnesium Sulphate (40°C)	X		
Manganese Chloride, Aqueous (40°C)**	X		
Manganese Sulphate, Aqueous (40°C)**	X		

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Mercuric Chloride, Aqueous (40°C)	X		
Mercurous Chloride, Aqueous (40°C)**	X		
Mineral Oils*	X		
n-Heptane (25°C)*	X		
Naphthalene (30°C)*	X		
Naphtha*		X	
Nickel Chloride, Aqueous (40°C)	X		
Nickel Nitrate, Aqueous (40°C)	X		
Nickel Sulphate, Aqueous (40°C)	X		
Nitric Acid			X
Oleic Acid (40°C)	X		
Oxalic Acid, Aqueous		X	
Ozone Gas			X
Paraffin (30°C)*	X		
Pentane (30°C)*	X		
Perchloric Acid (25°C)		X	
Petroleum, Refined & Sour*		X	
Phosphoric Acid		X	
Phosphoric Acid (30°C)	X		
Phthalic Acid (30°C)		X	
Potassium Permanganate, 25%**		X	
Potassium Bicarbonate**		X	
Potassium Bromide, Aqueous (40°C)	X		
Potassium Chloride, Aqueous (40°C)	X		
Potassium Dichromate, Aqueous (40°C)	X		

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Potassium Ferrocyanide (40°C)**	X		
Potassium Ferrocyanide, Aqueous (40°C)**	X		
Potassium Nitrate, Aqueous (40°C)	X		
Potassium Sulphate (40°C)	X		
Propylene Glycol (30°C)	X		
Sea Water (40°C)	X		
Sewage (50°C)	X		
Silicone Oil (40°C)	X		
Silver Nitrate, Aqueous (40°C)	X		
Sodium Bromide, Aqueous (40°C)**	X		
Sodium Chloride, Aqueous (40°C)	X		
Sodium Dichromate (25°C)	X		
Sodium Dihydrogen Phosphate (40°C)	X		
Sodium Ferrocyanide (40°C)**	X		
Sodium Hydroxide 10%		X	
Sodium Mono-phosphate		X	
Sodium Nitrate, Aqueous (40°C)	X		
Sodium Nitrite, Aqueous(40°C)**	X		
Sodium Silicate		X	
Sodium Sulphate, Aqueous (40°C)	X		
Sodium Sulphide		X	
Sodium Tetraborate (30°C)**	X		
Stannic Chloride, Aqueous (40°C)*	X		
Stannous Chloride, Aqueous (40°C)	X		
Stearic Acid (40°C)**	X		

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Sulphur			X
Sulphuric Acid, <25% (25°C)*	X		
Tannic Acid, Aqueous (35°C)	X		
Tartaric Acid (30°C)	X		
Toluene Sulfonic Acid**		X	
Tributyl Phosphate (40°C)		X	
Triethanolamine (40°C)		X	
Triethylamine (40°C)		X	
Turpentine*		X	
Urea, Aqueous (30°C)**	X		
Vinegar (25°C)	X		
Water, Distilled (40°C)	X		
Water, Sea (40°C)	X		
Water Tap (40°C)	X		
Zink Chloride, Aqueous (40°C)	X		
Zinc Nitrate, Aqueous (40°C)**	X		
Zinc Sulphate, Aqueous (40°C)	X		
Zinc Sulphite, Aqueous (40°C)**	X		

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