

# CHEM·SURE™

## PERISTALTIC PUMP TUBES

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A Swell < 10% after exposure. Suitable.

B Swell > 10% & < 20% after exposure. Generally suitable.

C Swell > 20% & < 40% after exposure. May be suitable in some situations.

D Swell >40% after exposure. Not suitable.

N Insufficient data

Recommendations made in the chart are based on our best experience and knowledge of the applications for these products and shall not constitute a guarantee or warranty of performance nor a modification or alteration of our standard product warranty, which shall be applicable to all products. Prior to any actual use compatibility tests should be run to determine suitability to a specific application, particularly where failure could result in injury or catastrophic failure.

Acetaldehyde		A
Acetic acid,		
	Glacial	A
	Hot	A
	5%	A
Acetic anhydride		A
Acetone		A
Acetone cyanohydrin		A
Acetyl chloride		A
Acetylene gas		A
Acrylonitrile		A
Adipic acid		A
Alcohol, denatured		A
Alkyl benzene		A
Alkyl-arylsulphonic acid		A
Alumina trihydrate		N
Aluminum acetate		N
Aluminum chloride		N
Aluminum nitrate		N
Aluminum potassium sulfate		N
Aluminum sulfate		N
Amines, mixed		B
Ammonia,		
	Gas, cold	A
	Gas, hot	N
	Liquid, (anhydrous)	N
Ammonium acetate		A
Ammonium bicarbonate		A
Ammonium bifluoride		N
Ammonium bromide		A
Ammonium carbonate		A

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Ammonium chloride	A
Ammonium hydroxide	A
Ammonium nitrate	A
Ammonium phosphate	A
Ammonium stearate	A
Ammonium sulfate	A
Ammonium thiocyanate	A
Amyl acetate	B
Amyl alcohol	A
Amyl nitrate	A
Aniline	A
Aniline hydrochloride	A
Anti-freeze, alcohol or glycol based	A
Aqua regia	N
Argon gas	A
Arsenic acid	A
Ash slurry	A
Asphalt	A
Barium chloride	A
Barium hydroxide; Mono-, octa-, pentahydrate	A
Barium nitrate	A
Beer	A
Beet sugar	A
Benzaldehyde	A
Benzene	A
Benzenesulfonic acid	A
Benzochloride	A
Benzoic acid	A
Benzotrifluoride	C
Bleach solutions	A
Blood	A
Bone oil	A
Boric acid	A
Boron trichloride	N
Bromine	N
Bunker fuel oil	A
Butadiene	B
Butane	B
Buttermilk	A
Butyl acetate	B
Butyl alcohol	A
Butylamine	B
Butylene	B

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Butylene glycol		A
Butyl ether		B
Butyric acid		A
Calcium acetate		A
Calcium carbonate		A
Calcium chlorate		A
Calcium cyanide		A
Calcium hydrogen sulfite		A
Calcium hydrosulfide		A
Calcium hydroxide, aqueous		A
Calcium hypochlorite		A
Calcium liquors		A
Calcium magnesium chloride		A
Calcium nitrate		A
Calcium phosphate;		
Dibasic, monobasic, tribasic		A
Calcium sulfate, aqueous		A
Carbamate		A
Carbon dioxide,		
	Dry	A
	Wet	A
Carbon disulfide		A
Carbon monoxide		A
Carbon tetrachloride		B
Carbonic acid		A
Castor oil		A
Catsup		A
Cement		A
Chloric acid		A
Chlorinated solvents		
	Dry	B
	Wet	B
Chlorine dioxide		N
Chlorine,		
	Dry	N
	Wet	N
Chloroacetic acid		B
Chloroacetone		B
Chlorobenzene		A
Chloroform		B
Chlorosulfonic acid		A
Chocolate		A
Chromic acid		N
Chromic oxide		A
Chromium potassium sulfate		A

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Citric acid	A
Clay slurry	A
Coal-tar	A
Coal-tar distillate	A
Coconut oil	A
Cod-liver oil	A
Copper acetate	N
Copper ammonium acetate	N
Copper chloride	N
Copper cyanide	N
Copper nitrate	N
Copper sulfate, <50%	N
Corn oil	A
Cottonseed oil	A
Creosote, coal-tar	A
Cresol	A
Crude oil - sour	A
Cumene	A
Cutting oil	A
Cyanogen	A
Cyclohexane	B
Decahydronaphthalene	A
Detergent, H <sub>2</sub> O solution	A
Diacetone alcohol	A
Diallyl phthalate	A
Dibromoethyl benzene	N
Dibutylamine	B
Dibutyl Cellosolve adipate	A
Dibutyl phthalate	A
Dichlorobenzene	B
Diesel oil	A
Diethanolamine	A
Diethylamine	B
Diethyl carbonate	A
Diethylene glycol	A
Diethylenetriamine	A
Diethyl phthalate	A
Diisobutyl ketone	A
Dimethylamine	A
Dimethyl formamide	A
Dimethyl phthalate	A
Dimethyl terephthalate	A
Dinitrochlorobenzene	A
Diocetyl phthalate	A
Diphenyl	A

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Dowtherm® (DOW chemical)	A	A
	E	A
	209	A
Epichlorohydrin		A
Ethane		A
Ethanethiol		A
Ethanolamine		A
Ethyl acetate		A
Ethyl alcohol		A
Ethylamine		B
Ethylbenzene		A
Ethylene		A
Ethylene dibromide		B
Dethylene dichloride		B
Ethylene glycol		A
Ethylene oxide		B
Ethyl ether		B
Ethyle formate		A
Fatty acids		A
Ferric sulfate, aqueous		A
Ferrous sulfate, aqueous		A
Fluorine, gas, dry < 300°F		D
Fluosilicic acid		N
Formaldehyde		A
Formic acid < 160 °F		A
Freon 11®		D
Freon 113®		D
Freon 114®		D
Freon 12®		D
Freon 22 ®		D
Freon 502 ®		D
Fruit juices		A
Fuel oil,		
	#1 , #2,	A
	#5 Light, #5 heavy , #6	A
Fumaric acid		A
Furfural		B
Gas oil		A
Gasoline		B
Gelatin		A
Glucose		A
Glycerol		A
Glycine		A
Helium		A

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Heptane	B
Hexyl alcohol	A
Hydraulic oil, petroleum based	A
Hydrazine	A
Hydrobromic acid	A
Hydrochloric acid ,	
Concentrated	A
Diluted	A
<20%, well service	A
20% - 30%, well service	A
Hydrocyanic acid	A
Hydrofluoric acid,	
Cold, < 65%	C
Cold, > 65%	C
Hot, <65%	N
Hot, > 65%	N
Hydrogen	A
Hydrogen chloride, gas, dry	A
Hydrogen fluoride, anhydrous	N
Hydrogen peroxide	A
Hydrogen sulfide,	
Dry, cold	A
Dry, hot	A
Wet, cold	A
Wet, hot	A
Hypochlorous acid	A
Isobutane	B
Isopropyl acetate	B
Isopropyl alcohol	A
Isopropyl ether	B
Jet fuel	A
Kerosene	A
Lacquer	A
Lactic acid,	
Cold	A
Hot	A
Lard	A
Latex	A
Ligroin	B
Lime slurry	A
Linoleic acid	A
Linseed oil	A
Liquefied petroleum gas	B

CHEM-SURE™ TUBING has poor compatibility with strong acids.

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Lubricating oil, petroleum base	A
Magnesium chloride	A
Magnesium hydroxide	A
Magnesium sulfate	A
Maleic acid	A
Maleic anhydride	A
Malic acid	A
Manganous chloride	A
Melamine resin	A
Mercuric chloride	A
Mercury	A
Mesityl oxide	A
Methane	B
Methyl acetate	B
Methyl alcohol	A
Methyl benzoate	A
Methyl bromide	B
Methyl chloride	B
Methylene bromide	B
Methylene chloride	B
Methyl ethyl ketone	B
Methyl formate	A
Methyl isobutyl ketone	B
Methyl methacrylate	A
Methyl propionate	A
Methyl tertiary butyl ether	B
Milk	A
Mineral oil	A
Molasses	A
Naphtha, crude	B
Naphthalene	A
Natural gas, sour	B
Nickel chloride	A
Nickel sulfate	A
Nitric acid,	
Diluted	A
Concentrated	A
Red fuming	N
Nitrobenzene	A
Nitrogen gas	A
Nitromethane	A
Oleic acid	A
Olive oil	A

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Oxalic acid	A
Oxygen, gas	A
-10°F to 200 °F	A
200 °F to 400 °F	A
Ozone	A
Paint, oil based	A
Palm oil	A
Palmitic acid	A
Paper stock	A
Paraffin wax, molten	A
Peanut oil, vegetable	A
Pectin, liquor	A
Pentane	B
Perchloric acid	A
Perchloroethylene	B
Phenol, 10%	A
Phenylacetic acid	A
Phosphoric acid,	
Concentrated	A
Diluted	A
Phthalic anhydride	A
Picoline, alpha	A
Picric acid,	
H2O solution	A
Molten	A
Pine oil	A
Polyethylene glycol	A
Polypropylene slurry	A
Polyvinyl acetate emulsion	A
Polyvinyl alcohol	A
Potassium bromide	A
Potassium carbonate	A
Potassium chlorate	A
Potassium chloride	A
Potassium cyanide	A
Potassium dichromate	A
Potassium hydroxide, diluted	A
Concentrated	A
Potassium nitrate	A
Potassium permanganate	A
Potassium phosphate;	
Dibasic, monobasic, tribasic	A
Potassium sulfate	A
Propane	B
Propionic acid, <150 °F	A

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Propyl acetate	B
Propyl alcohol	A
Propylene	B
Propylene oxide	B
Pulp stock	A
Pyridine	A
Quenching oil	A
Rapeseed oil	A
Red liquor	A
Refrigerator oil	A
Sewage	A
Silver nitrate	A
Soap solutions	A
Soda ash	A
Sodium acetate	A
Sodium bicarbonate	A
Sodium bisulfate	A
Sodium bisulfite,	
< 200 °f	A
Sodium carbonate	
> 200 °f	A
Sodium chloride	
> 200 °f	A
Sodium cyanide, aqueous	A
Sodium dichromate	A
Sodium dithionite	A
Sodium hydroxide, diluted	A
Sodium hypochlorite, 20%	A
Sodium nitrate	A
Sodium peroxide	A
Sodium phosphate,	
Dibasic, monobasic, tribasic	A
Sodium silicate	A
Sodium sulfate	A
Sodium sulfide	A
Sodium sulfite	A
Sodium thiocyanate	A
Sodium thiosulfate	A
Soybean oil	A
Starch	A
Steam, <350 °F	A
Steam, > 350 °F - 500°F	A
Stearic acid	A
Styrene	A
Sulfite waste liquor	A

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Sulfur,		
	Molten	A
	In water	A
Sulfur chloride		A
Sulfur dioxide,		
	Wet	A
	Dry	A
Sulfuric acid,		
	Diluted	A
	Concentrated	A
	Fuming	D
Sulfurous acid		A
Tall oil,		
	< 450°f	A
Tallow		A
Tartaric acid, aqueous		A
Terephthalic acid		A
Tetrachloroethane		B
Tetrahydrofuran		B
Thiols		A
Titanium dioxide		A
Titanium tetrachloride		N
Toluene		A
Trichloroethane		B
Trichloroethylene		B
Tricresyl phosphate		A
Triethanolamine		A
Triethylamine		B
Tung oil		A
Turpentine (oil)		A
Urea		A
Urea-formaldehyde resin		A
Varnish		A
Vinagar		A
Vinyl acetate		B
Vinyl chloride		B
Vinylidene chloride		B
Water,		
	Chlorinated	A
	Fresh	A
	Heavy	A
	Salt or sea	A
Whiskey		A
White liquor		A

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Wine	A
Wood pulp stock	A
Wort	A
Xylene	A
Yeast	A
Zinc chloride	A
Zinc nitrate	A
Zinc sulfate	A