Obsolete – 4/[illegible]/06

TP-102
SUPERCEDES T-630

TECHNICAL BULLETIN
CORROSION RESISTANCE CHARTS
INDUSTRIAL CHEMICALS

THIS CHART PROVIDES CHEMICAL RESISTANCE INFORMATION FOR GLASS FILLED POLYESTER RESIN USED IN THE SERFILCO SERIES "PE" SELF PRIMING CENTRIFUGAL PUMP.

A — Recommended
C — Not recommended
X — Insufficient data

	Major Pump Components					Gaskets			Hardware			
CHEMICAL	NORYL	PVC	POLYESTER	TEFLON	POLYPROPYLENE	BUNA-N	EPDM	VITON	CARBON	CERAMIC	HASTALLOY C	316 STAINLESS STEEL
ACETALDEHYDE	X	C	A	A	A	C	A	C	A	A	A	A
ACETIC ACID, 20%	A	A	A	A	A	A	A	A	A	A	A	A
ACETIC ACID, 50%	A	A	C	A	X	A	A	C	A	A	A	A
ACETIC ACID, Glacial	A	A	C	A	X	C	A	A*	A	A	A	A
ACETIC ANHYDRIDE	C	C	C	A	A	C	A	C	A	A	A	A
ACETONE	X	C	A	A	A	C	A	C	A	A	A	A
ALUMINUM CHLORIDE	A	A	C	A	A	A	A	A	A	A	A	C
ALUMINUM FLUORIDE	A	A	C	A	X	A	A	A	A	X	A	A*
ALUMINUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIA, 30% (cold)	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM PERSULFATE	A	A	A	A	X	C	A	A	A	A	A	A*
AMMONIUM PHOSPHATE	A	A	A	A	X	A	A	A	A	A	A	A
AMMONIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A*
AMYL ACETATE	C	C	A	A	A	C	A	C	A	A	A	A
AMYL ALCOHOL	A	A	A*	A	X	A	A	A	A	A	A	A
AMYL CHLORIDE	C	C	A	A	X	X	X	A	A	A	A	A*
ANILINE	C	C	C	A	A	C	A	A	A	A	A	A
AQUA REGIA	C	C	C	A	X	C	X	A*	X	A	A	C
ARSENIC ACID	A	A	C	A	X	A	A	A	A	A	X	X
BARIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A*
BARIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A
BEER	A	A	X	A	X	C	A	A	A	A	A	A
BENZALDEHYDE	C	C	A	A	A	C	A	C	A	A	A	A
BENZENE (BENZOL)	C	C	A	A	A	C	C	A	A	A	A	A
BENZOIC ACID	A	A	A	A	A	C	X	A	A	A	A	A
BORAX (SODIUM BORATE)	A	A	A	A	A	A	A	A	A	A	A	A
BORIC ACID	A	A	A	A	X	A	A	A	X	A	A	A
BROMINE WATER	A	A*	C	A	A	C	C	A	C	A	A	C
BUTYL ACETATE	C	C	A	A	A	X	A	C	A	A	A	A
BUTYRIC ACID	A	A	C	A	X	C	A	A	A	A	A	A
CALCIUM BISULFITE	A	A	C	A	X	A	C	A	A	A	A	A
CALCIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A*
CALCIUM HYPOCHLORITE 20%	A	A	A	A	X	A	A	A	A	A	A	A*
CALCIUM SULFATE	A	A	A	A	A	A	X	A	A	A	A	A
CARBON TETRACHLORIDE	C	A*	A	A	A	C	C	A	A	A	A	A
CARBONIC ACID	A	A	A	A	A	A	X	A	A	A	A	A
CHLOROACETIC ACID	C	A	C	A	X	C	A	A	A	A	A	C
CHLORINE WATER	A	A	C	A	X	C	A	A	A	A	A	C
CHLOROBENZENE	C	C	C	A	A	C	C	A	A	A	A	A
CHLOROFORM	C	C	A	A	A	C	C	A	A	A	A	A
CHLOROSULFONIC ACID	X	A	C*	A	A	C	C	C	C	A	A	A
CHROMIC ACID, 10%	A	A	C	A	A	C	C	A	A*	A	A	A
CHROMIC ACID, 50%	C	A	C	A	A	C	C	A	A*	A	A	A
CHROMIC ACID, 80%	C	C	C	A	A	C	C	A	A*	A	A	C
CITRIC ACID	A	A	A	A	A	C	A	A	A	A	A	A
COPPER CHLORIDE	A	A	C	A	A	A	A	A	A*	A	A	A
COPPER CYANIDE	A	A	C	A	A	A	A	A	A	A	A	A
COPPER NITRATE	A	A	A	A	A	A	X	A	A	A	A	A
COPPER SULFATE	A	A	A	A	A	A	A	A	A	A	A	A
CRESYLIC ACID	X	A	A	A	A	A	C	A	A	A	A	A
ETHYL ACETATE	C	C	A	A	A*	X	A	C	A	A	A	A
ETHYL CHLORIDE	C	C	A	A	C	A	A	A	A	A	A	A
ETHYLENE GLYCOL	A	A	A	A	A	A	A	A	A	A	A	A
FATTY ACIDS	A	A	A	A	A	A	C	A	A	A	A	A
FERRIC CHLORIDE	A	A	A	A	A	A	A	A	A	A	A*	C
FERRIC NITRATE	A	A	A*	A	A	A	A	A	A	A	A	A
FERRIC SULFATE	A	A	A*	A	A	A	A	A	A	A	A	A
FERROUS CHLORIDE	A	A	A	A	A	X	A	A	A	A	A	C
FERROUS SULFATE	A	A	A	A	A	X	A	A	A	A	A	A
FLUOBORIC ACID	A	A	A*	A	A	A	A	A	A	C	A	A
FLUOSILICIC ACID	A	A	X	A	A	A	A	A	A	C	A	A
FORMALDEHYDE, 40%	A	A	A	A	A	A	A	A	A	A	A	A
FORMIC ACID	A	A*	C	A	A	A*	A*	C	A	A	A	A
FREON 12 (Wet)	A	A*	A	A	A	A	A*	A*	A	A	X	C
FUEL OILS	A	A	A	A	A	A	C	A	A	A	A	A
FURFURAL	C	C	A	A	C	C	A	C	A	A	A	A
GASOLINE	C	A*	A	A	A	A	C	A	A	A	A	A
GLYCERINE (GLYCEROL)	X	A	A	A	A	A	A	A	A	A	A	A
HEPTANE	C	A	A	A	A*	A	C	A	A	A	A	A
HEXANE	X	A*	A	A	A*	A	C	A	A	A	A	A
HYDROBROMIC ACID, 50%	A	A	C	A	A	A	A	A	A	A*	A*	C
HYDROCHLORIC ACID, 0-15%	A	A	A	A	A	A*	A	A	A	A*	A*	C
HYDROCHLORIC ACID, 15-37%	A	A	A	A	A	A*	A	A	A	A*	A*	C
HYDROCYANIC ACID	A	A	A	A	A	A*	A	A	A	A*	A	A
HYDROFLUORIC ACID, 10%	A	A*	C	A	A	X	X	A	C	C	A	C
HYDROFLUORIC ACID, 30%	A	A*	C	A	A	C	A	A	C	C	A	C
HYDROFLUORIC ACID, 60%	C	A	C	A	A	C	A	A	C	C	A	C
HYDROFLUOSILICIC ACID 20%	A	A	X	A	A	A	A	A	X	C	A	A
HYDROGEN PEROXIDE, 30%	X	A	A	A	A	C	X	A	A	X	A	A*
HYDROGEN PEROXIDE, 50%	X	A*	A	A	X	C	A	A	A	X	A	A*
HYDROGEN PEROXIDE, 90%	X	C	A	A	X	C	A	A*	A	X	A	A*
HYDROGEN SULFIDE, AQ. SOL.	A	A*	A	A	A	C	A	C	A	X	A	A
IODINE (In Alcohol)	A	C	C	A	A*	C	X	A	A	A	A	C
KEROSENE	X	A	A	A	A*	A	C	A	A	A	A	A
KETONES	C	C	A	A	A*	C	X	C	A	A	A	A
LACQUER THINNERS	C	A	A	A	A*	C	C	C	A	A	A	A
LACTIC ACID	A	A	A*	A	A	A	A	A	A	A	A	A
LEAD ACETATE	A	A	A	A	A	A*	A	A	A	A	A	A
LUBRICATING OIL	X	A*	A	A	A*	A	C	A	A	A	A	A
MAGNESIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A*
MAGNESIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A
MAGNESIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A
MALEIC ACID	X	A	A	A	A	X	A	A	A	A	A	A
METHYL ALCOHOL	X	A*	A	A	A	A	A	A	A	A	A	A
METHYL CHLORIDE	C	C	X	A	C	C	A	A	A	A	A	A
METHYL ETHYL KETONE	C	C	A	A	A*	C	A	C	A	A	A	A
METHYL ISOBUTYL KETONE	C	C	A	A	A*	C	A	C	A	A	A	A
METHYLENE CHLORIDE	C	C	C	A	A	C	A	A	A	A	A	A
NAPHTHA	X	A	A	A	A	A	A	A	A	A	A	A
NAPHTHALENE	X	C	A	A	A*	C	A	A	A	A	A	A
NICKEL CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A
NICKEL SULFATE	A	A	A	A	A	A	A	A	A	A	A	A
NITRIC ACID, 10%	A	A	A	A	A	C	A	A	X	A	A	A
NITRIC ACID, 20%	A	A	A	A	A	C	A	A	X	A	A	A
NITRIC ACID, 50%	C	A	A	A	A*	C	C	A	X	A	A	A
NITRIC ACID, ANHYDR.	C	C	C	A	C	C	C	A	X	A	A	A*
NITRO BENZENE	C	C	A	A	A	C	C	A	A	A	A	A
OIL AND FATS	X	A	A	A	A	A	C	A	A	A	A	A
OLEIC ACID	A	A	A	A	A*	A	A	A*	A	A	A	A
OLEUM, 25%	C	C	C	A	C	C	C	A	A	A	A	X
OXALIC ACID	A	A	C	A	A	A*	A	A	A	A	A	A*
PHENOL	C	A*	C	A	A	C	A	A	A	A	A	A
PHOSPHORIC ACID, 0-50%	A	A	A*	A	A	A*	A	A	A	A	A	A
PHOSPHORIC ACID, 50-100%	A	A	A*	A	A	C	A	A	A	A	A	A
POTASSIUM BICARBONATE	A	A	A	A	A	A	X	A	A	A	A	A
POTASSIUM BROMIDE	A	A	A	A	A	A	X	A	A	A	A	A
POTASSIUM CARBONATE	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM CHLORATE	A	A	A	A	A	A	X	A	A	A	X	A
POTASSIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM CYANIDE	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM DICHROMATE	A	A	C	A	A	A	A	A	A	A	A	A
POTASSIUM HYDROXIDE	A	A	C	A	A	A	A	A*	X	A	A	A
POTASSIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM PERMANGANATE	A	A	C	A	A	A	X	A	A	A	A	A
POTASSIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A
PROPYL ALCOHOL	X	A*	A	A	A	A	A	A	A	A	A	A
SOAPS	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM ACETATE	A	A	A	A	A	C	A	C	A	A	A	A
SODIUM BICARBONATE	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM BISULFATE	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM BISULFITE	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CARBONATE, 10%	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CHLORATE	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CYANIDE	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM HYDROXIDE, 20%	A	A	C	A	A	A*	A	C	A	C	A	A
SODIUM HYDROXIDE, 50%	A	A	C	A	A	A*	A	C	A	C	A	A
SODIUM HYPOCHLORITE	A	A	A	A	A	C	A	A	C	A	A	C
SODIUM NITRATE	A	A	A	A	A	A*	A	A	A	A	A	A
SODIUM SILICATE	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM SULFIDE	A	A	A	A	A	C	A	A	A	A	A	A
STANNIC CHLORIDE	A	A	C	A	A	A	A*	A	A	A	A	C
STEARIC ACID	X	A	A*	A	A*	C	A	A	A	A	A	A
STODDARDS SOLVENT	C	C	A	A	X	A	C	A	A	X	A	A
SULFURIC ACID, 0-10%	A	A	A	A	A	C	A*	A	A	A	A	A
SULFURIC ACID, 10-85%	A	A	A	A	A*	C	A	A	A	A	A	A
SULFURIC ACID, 85-100%	A	A*	A	A	A	C	C	A	A	A	A	A
TANNIC ACID	X	A	C	A	A	C	A	A	A	A	A	A
TANNING LIQUORS	X	A	X	A	A	A	A	A	A	A	A	A
TARTARIC ACID	A	A	A	A	A	C	A	A	A	A	A	A
TETRAHYDROFURANE	C	C	A*	A	A	C	A	C	A	A	A	A
TOLUENE (TOLUOL)	C	C	A	A	A	C	C	A	A	A	A	A
TRICHLOROETHYLENE	C	C	C	A	A	C	C	A	A	A	A	A
TRICRESYLPHOSPHATE	X	C	X	A	X	C	A	A	A	A	A	A
TURPENTINE	X	A	A	A	A*	A	C	A	A	A	A	A
UREA	X	A	X	A	A	C	X	C	A	A	A	A
VINEGAR	A	A	A	A	A	C	A	A	A	A	A	A
WHITE LIQUOR (ACID)	A	A	X	A	X	A	X	A	X	A	A	A
XYLENE (XYLOL)	C	C	A	A	C	C	C	A	A	A	A	A
ZINC CHLORIDE	A	A	C	A	A	A	A	A	A	A	A	A
ZINC SULFATE	A	A	A	A	A	A	A	A	A	A	A	A

The preceding chart is only to be used as a guide to selecting the proper pump for your application. Your conditions may vary from the test conditions under which the above information was obtained.

*For use in applications where the temperature does not exceed 80°F. Consult factory for applications involving temperatures greater than 130°F.