Chemical Resistance Guide

Vinyl-T = VINYLTUF
Neoprene = NEOTUF
Urethane = TUFFR PLUS

These ratings are intended as a general guide only. Since there are variable factors which can affect the chemical resistance of the material, the final determination of the suitability of the materia is the resposnsibility o the user. Upon request, UMBO will provide a smaple of the material to aid the user in making this determination.

(E) = Excellent – Little or no effect
(G) = Good – Minor effect
(F) = Fair – Moderate effect
(NR) = Not Recommended – Severe effect

CHEMICAL / SUBSTANCE	V	N	U
ACETALDEHYDE	E	E	F
ACETIC ACID	E	E	G
ACETONE	F	E	F
ACRYLONITRILE	E	G	F
AMMONIUM HYDROXIDE	E	E	G
AMMONIUM SULFATE	E	E	G
AMYL ACETATE	G	G	G
AMYL ALCOHOL	E	E	E
ANILINE	E	E	F
BATTERY ACID	E	G	F
BENZALDEHYDE	E	G	F
BENZENE (BENZOL)	F	F	E
BENZYL ALCOHOL	E	E	E
BENZYL CHLORIDE	E	G	F
BUTANE	G	G	E
BUTTER	E	E	E
BUTTERMILK	E	E	E
BUTYL ACETATE	G	G	G
BUTYL ALCOHOL	E	E	E
BUTYRALDEHYDE	E	E	F
CALCIUM CHLORIDE	E	E	G
CALCIUM HYPOCHLORITE	E	E	F
CARBOLIC ACID	E	E	F
CARBON DISULFIDE	E	F	F
CARBON TETRACHLORIDE	G	G	G
CARBONIC ACID	E	E	E
CASTOR OIL	E	E	E
CAUSTIC POTASH	E	E	F
CHLORINE WATER	E	E	F
CHLOROACETONE	G	E	F
CHLOROFORM	E	G	G
CHLOROX	E	E	F
CITRIC ACID	E	E	E
COAL TAR SOLVENTS	F	G	E
COCONUT OIL	E	E	E
COPPER CHLORIDE	E	G	F
COPPER SULFATE	E	G	G

CHEMICAL / SUBSTANCE	V	N	U
COTTONSEED OIL	E	E	E
CUTTING OIL	E	F	E
CYCLOHEXANE	F	G	NR
DIACETONE ALCOHOL	E	E	E
DIBENZYL ETHER	E	G	G
DIBUTYL PHTHALATE	E	E	G
DIETHANOLAMINE	E	E	F
ETHYL ACETATE	G	G	G
ETHYL ALCOHOL	E	E	E
ETHYL ETHER	E	E	E
ETHYL FORMATE	G	E	G
ETHYLENE GLYCOL	E	E	E
FERRIC CHLORIDE	E	E	F
FORMALDEHYDE	E	E	F
FORMIC ACID	E	E	G
FURFURAL	E	G	G
GASOLINE (CRACKED)	F	E	E
GASOLINE (SR)	F	E	E
GLYCERINE	E	E	E
GREASE (ALL KINDS)	E	E	E
HEXANE	G	E	E
HYDROBROMIC ACID	E	E	F
HYDROCHLORIC ACID	E	G	F
HYDROFLUORIC ACID	E	NR	NR
HYDROGEN PEROXIDE	E	E	G
HYDROGEN SULFIDE	E	G	G
HYLENE	F	G	F
KEROSENE (C-T)	G	F	E
KEROSENE (PET)	G	E	E
LACTIC ACID	E	E	G
LARD OIL	E	E	E
LINSEED OIL	E	E	E
MALIC ACID	E	E	F
METHYL ACETATE	G	E	G
METHYL ALCOHOL	E	E	E
METHYL CELLOSOLVE	E	E	G
METHYL CHLORIDE	E	E	F

CHEMICAL / SUBSTANCE	V	N	U
METHYL ETHYL KETONE	G	E	F
MILK	E	E	E
MINERAL OIL	E	E	E
MONOETHANOLAMINE	E	E	F
MORPHOLINE	E	E	G
NAPHTHA	F	E	E
NITRIC ACID	E	G	F
NITROBENZENE	E	F	G
OCTYL ALCOHOL	E	E	E
OLEIC ACID	E	E	G
OLIVE OIL	E	E	E
PAINT REMOVER	G	G	F
PERCHLORETHYLENE	F	G	G
PERCHLORIC ACID	E	G	NR
PETROLEUM OILS	E	E	E
PETROLEUM SOLVENT	E	E	E
PHOSPHORIC ACID	E	E	G
PINE OIL	E	E	E
POTASSIUM DICHROMATE	E	G	F
POTASSIUM HYDROXIDE	E	E	F
PROPANE	E	G	E
PROPYL ACETATE	G	E	G
PROPYL ALCOHOL	E	E	E
SOAPS	E	E	E
SODIUM HYDROXIDE	E	E	G
STEARIC ACID	E	E	G
SULPHURIC ACID	E	G	F
TANNIC ACID	E	E	G
TIN CHLORIDE	E	E	G
TOLUENE	F	G	G
TOLUOL	F	G	G
TRICHLORETHYLENE	G	G	G
TRICRESYL PHOSPHATE	E	E	F
TRIETHANOLAMINE	E	G	G
TRINITROTOLUENE	E	F	F
TURPENTINE	G	E	E

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