HYDROTITE

CHEMICAL RESISTANCE OF CHLOROPRENE

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The following compatibility chart gives chemical resistances of chloroprene, the principal component of HYDROTITE. Note that this chart lists only effects of chemicals upon functions other than water expansibility. Resistance of chloroprene to each chemical depends upon temperature, ventilation, period of chemical exposure, stability of liquid and other conditions. The best way to determine whether HYDROTITE will be satisfactory for a given application is to test it in actual service or, if not possible, under conditions which simulate the real environment.

CHEMICAL	CHLOROPRENE
Acetic acid, 20%	A
Acetic acid, 30%	A
Acetic acid, glacial	B
Acetic anhydride	A
Acetone	B
Acetylene	B
Aluminum chloride solutions	A
Aluminum sulfate solutions	A (70℃)
Ammonia, anhydrous	A
Ammonium chloride solutions	A
Ammonium hydroxide solutions	A
Ammonium sulfate solutions	A (70℃)
Amyl acetate	C
Amyl alcohol	A (70℃)
Aniline	C
Asphalt	C
ASTM hydrocarbon test fluid	X
ASTM oil #1	A
ASTM oil #3	B (70℃)
ASTM reference fuel A	A
ASTM reference fuel B	C
ASTM reference fuel C	C
Barium hydroxide solutions	A (70℃)
Benzaldehyde	C
Benzoyl chloride	C
Borax solutions	A (70℃)
Boric acid solutions	A (70℃)
Bromine anhydrous liquid	C
Butane	A
Butyl acetate	C
Butyraldehyde	B
Butylene oxide	C
Calcium bisulphite solutions	A (70℃)
Calcium chloride solutions	A
Calcium hydroxide solutions	A (70℃)
Calcium hypochlorite, 5%	B
Calcium hypochloride, 20%	X
Carbon disulphide	C
Carbon dioxide	A
Carbon monoxide	A
Carbon tetrachloride	C
Castor bean oil	A (70℃)
Chlorine gas, dry	B
Chlorine gas, wet	C
Chloroacetic acid	A
Chromic acid	C
Citric acid solutions	A
Copper chloride solutions	A
Copper sulfate solutions	A
Cottonseed oil	A
Creosote oil	C
Cyclohexane	C
Dibutyl phthalate	C
Diethyl sebacate	C
Dioetyl phthalate	C
DOWTHERM A	B
Epichlorohydrine	-
Ethyl acetate	C
Ethyl alcohol	A (70℃)
Ethyl chloride	B
Ethylene dichloride	C
Ethyl ether	C
Ethylene glycol	A (70℃)
Ethylene oxide	X
Ferric chloride solutions	A
Fluorosilicic acid	A (70℃)
Formaldehyde, 37%	T
Formaldehyde, 37%	-
Formaldehyde, 40%	A
Formaldehyde, 40%	C (70℃)
Formic acid	A
FREON 11	A, B
FREON 11	B (54℃)
FREON 12	A
FREON 12	A (54℃)
FREON 22	A
FREON 22	A (54℃)
FREON 113	A
FREON 113	A (54℃)
FREON 114	A
FREON 114	A (54℃)
Fuel oil	A
Furfural	B
Gasoline	B
Glue	A (70℃)
Glycerin	A (70℃)

CHEMICAL	CHLOROPRENE
n- Hexane	A
Hydraulic oils	A
Hydrochloric acid, 20%	A
Hydrochloric acid, 37%	A
Hydrocyanic acid	A
Hydrofluoric acid, 48%	A
Hydrofluoric acid, 75%	T
Hydrofluoric acid, 100%	-
Hydrogen	A
Hydrogen peroxide, 38.5%	B
Hydrogen peroxide, 90%	-
Hydrogen sulphide	A
Isooctane	A
Isopropyl alcohol	A
Isopropyl ether	C
JP-4	C
JP-5	X
JP-6	X
Kerosene	B
Lacquer solvents	C
Lactic acid	A
Linseed oil	A
Lubricating oils	B (70℃)
Magnesium chloride solutions	A (70℃)
Magnesium hydroxide solutions	A (70℃)
Mercuric chloride solutions	A
Mercury	A
Methyl alcohol	A (70℃)
Methyl ethyl ketone	X
Methylene chloride	C (38℃)
Mineral oil	A
Mixed acid	X
Naphtha	C
Naphthalene	C (80℃)
Nitric acid, 10%	B
Nitric acid, 30%	C
Nitric acid, 30%	-
Nitric acid, 60%	X
Nitric acid, 70%	C
Nitric acid, fuming	X
Nitrobenzene	C
Oleic acid	B
Palmitic acid	B (70℃)
Perchloroethylene	X
Phenol	B
Phosphoric acid, 20%	T
Phosphoric acid, 60%	A
Phosphoric acid, 70%	T
Phosphoric acid, 85%	A

CHEMICAL	CHLOROPRENE
Pickling solution (20% nitric acid, 4% HF)	B, C
Pickling solution (17% nitric acid, 4% HF)	X
Pieric acid	A
Potassium bichromate	A
Potassium hydroxide	A (70℃)
Pyridine	X
SAE #10 oil	C
Soap aqueous solutions	A (70℃)
Sodium dichromate, 20%	B
Sodium hydroxide, 20%	A
Sodium hydroxide, 46.5%	A
Sodium hydroxide, 46.5%	A (70℃)
Sodium hydroxide, 50%	A
Sodium hydroxide, 73%	T
Sodium hydrochlorite, 5%	T
Sodium hydrochlorite, 20%	B
Sodium peroxide solutions	A
Soya bean oil	A
Stannous chloride, 15%	A (70℃)
Steam	-
Stearic acid	B (70℃)
Sulfur, molten	A
Sulfur dioxide, liquid	A
Sulfur dioxide, gas	A
Sulfur trioxide	C
Sulfuric acid, up to 50%	A (70℃)
Sulfuric acid, 50% to 80%	B, C
Sulfuric acid, 60%	B
Sulfuric acid, 90%	X
Sulfuric acid, 95%	C
Sulfuric acid, 95%	-
Sulfuric acid, 20% vapor	C
Sulfuric acid, 20% fuming	C
Sulfuric acid, 25% fuming	C
Sulfuric dioxide	X
Tannic acid, 10%	A
Tartaric acid	A (70℃)
Tin chloride	B
Toluene	C
Tributyl chloride	C
Trichloroethylene	C
Tricresyl chloride	X
Triethanolamine	A (70℃)
Trisodium phosphate solutions	T
Tung oil	A
Turpentine oil	C
Water	A (100℃)
Xylene	X
Zinc chloride solutions	A

A: Little or no effect.
B: Minor to moderate effect.
C: Severe effect to complete destruction.
T: No data, but most likely to be satisfactory.
X: No data, but most likely to be unsatisfactory.
- : Not tested for compatibility.