



CHEMICAL RESISTANCE OF CHLOROPRENE

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

CHEMICAL	CHLOROPRENE	CHEMICAL	CHLOROPRENE
n-Hexane	A	Pickling solution (20% nitric acid, 4% HF)	B, C
Hydraulic oils	A	Pickling solution (17% nitric acid, 4% HF)	X
Hydrochloric acid, 20%	A	Pieric acid	A
Hydrochloric acid, 37%	A	Potassium bichromate	A
Hydrocyanic acid	A	Potassium hydroxide	A (70°C)
Hydrofluoric acid, 48%	A	Pyridine	X
Hydrofluoric acid, 75%	T	SAE #10 oil	C
Hydrofluoric acid, 100%	-	Soap aqueous solutions	A (70°C)
Hydrogen	A	Sodium dichromate, 20%	B
Hydrogen peroxide, 38.5%	B	Sodium hydroxide, 20%	A
Hydrogen peroxide, 90%	-	Sodium hydroxide, 46.5%	A
Hydrogen sulphide	A	Sodium hydroxide, 46.5%	A (70°C)
Isooctane	A	Sodium hydroxide, 50%	A
Isopropyl alcohol	A	Sodium hydroxide, 73%	T
Isopropyl ether	C	Sodium hypochlorite, 5%	T
JP-4	C	Sodium hypochlorite, 20%	B
JP-5	X	Sodium peroxide solutions	A
JP-6	X	Soya bean oil	A
Kerosine	B	Stannous chloride, 15%	A (70°C)
Lacquer solvents	C	Steam	-
Lactic acid	A	Stearic acid	B (70°C)
Linseed oil	A	Sulphur, molten	A
Lubricating oils	B (70°C)	Sulphur dioxide, liquid	A
Magnesium chloride solutions	A (70°C)	Sulphur dioxide, gas	A
Magnesium hydroxide solutions	A (70°C)	Sulphur trioxide	C
Mercuric chloride solutions	A	Sulphuric acid, up to 50%	A (70°C)
Mercury	A	Sulphuric acid, 50% to 80%	B, C
Methyl alcohol	A (70°C)	Sulphuric acid, 60%	B
Methyl ethyl ketone	X	Sulphuric acid, 90%	X
Methylene chloride	C (38°C)	Sulphuric acid, 95%	C
Mineral oil	A	Sulphuric acid, 95%	-
Mixed acid	X	Sulphuric acid, 20% vapour	C
Naphtha	C	Sulphuric acid, 20% fuming	C
Naphthalene	C (80°C)	Sulphuric acid, 25% fuming	C
Nitric acid, 10%	B	Sulphur dioxide	X
Nitric acid, 30%	C	Tannic acid, 10%	A
Nitric acid, 30%	-	Tartaric acid	A (70°C)
Nitric acid, 60%	X	Tin chloride	B
Nitric acid, 70%	C	Toluene	C
Nitric acid, 70%	-	Trabutyl chloride	C
Nitric acid, fuming	X	Trichloroethylene	C
Nitric acid, fuming	-	Tricresyl chloride	X
Nitrobenzene	C	Triethanolamine	A (70°C)
Oleic acid	B	Trisodium phosphate solutions	T
Palmitic acid	B (70°C)	Tung oil	A
Perchloroethylene	X	Turpentine oil	C
Phenol	B	Water	A (100°C)
Phenol	-	Xylene	X
Phosphoric acid, 20%	T	Zinc chloride solutions	A
Phosphoric acid, 60%	A		
Phosphoric acid, 70%	T		
Phosphoric acid, 85%	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.