

VersaFlex VT-40 Chemical Resistance Chart

Product Rating Key:

A = little or no effect

B = minor to moderate effect

C = severe effect, not recommended

T = no data, likely to be compatible

X = no data, not likely to be compatible

Chemical	Rating	Chemical	Rating
Acetaldehyde	C	Amyl acetate	C
Acetic acid (30%)	A	Amyl alcohol	A (212°F)
Acetic acid (20%)	A	Aniline	A-B
Acetic acid (glacial)	C	Aniline	B (158°F)
Acetic anhydride	C	Aniline	C (300°F)
Acetone	C	ASTM Oil #1	A (300°F)
Acetylene	A	ASTM Oil #3	A (300°F)
Aluminum chloride solutions	A	ASTM reference fuel A	A
Aluminum sulfate solutions	A	ASTM reference fuel B	A
Ammonia, anhydrous	C	ASTM reference fuel C	A
Ammonium chloride solutions	A	Asphalt	A (400°F)

Chemical	Rating	Chemical	Rating
Barium hydroxide solutions	A	Boric acid solutions	A
Beer	A	Bromine, anhydrous liquid	A (212°F)
Benzaldehyde	C	Butane	A
Benzene	B (158°F)	Butyl acetate	C
Benzoyl chloride	B	Butyraldehyde	C
Borax solutions	A	Butyric acid	T

Chemical	Rating	Chemical	Rating
Calcium bisulfite solutions	A	Chloroacetic acid	C
Calcium chloride solutions	A	Chlorobenzene	A
Calcium hydroxide solutions	A	Chloroform	A
Calcium hypochlorite, 5%	A	Chlorosulfonic acid	C
Calcium hypochlorite, 20%	B (158°F)	Chromic acid, 10-50%	A
Carbon bisulfide	A	Citric acid solutions	A
Carbon dioxide	A	Copper chloride solutions	A
Carbon tetrachloride	B (158°F)	Copper sulfate solutions	A
Castor oil	A	Cottonseed oil	A (300°F)
Chlorine gas, dry	A (212°F)	Creosote oil	A (212°F)
Chlorine gas, wet	A	Cumene	A (200°F)

Chemical	Rating	Chemical	Rating
Dibutyl phthalate	B	Dowtherm A	A (212°F)
Diethyl sebacate	B	Dowtherm A	B (400°F)
Diocetyl phthalate	B		

Chemical	Rating	Chemical	Rating
Epichlorohydrin	C (212°F)	Ethylene dichloride	A-B (120°F)
Ethyl acetate	C	Ethylene glycol	A (250°F)
Ethyl alcohol	A	Ethylene oxide	C (158°F)
Ethyl chloride	A	Exxon 2380 turbo oil (lube)	A (392°F)
Ethyl ether	B		

Chemical	Rating	Chemical	Rating
Ferric chloride solutions	A	Freon -22	C
Fluosilicic acid	T	Freon -22	X (130°F)
Formaldehyde, 40%	A	Freon -113	A
Formic acid	C (158°F)	Freon -113	T (130°F)
Freon -11	B	Freon -114	A
Freon -11	T (130°F)	Freon -114	T (130°F)
Freon -12	A-B	Furfural	C (158°F)
Freon -12	B (130°F)	Fyrquel 220 (hydraulic fluid)	A (212°F)

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	Rating	Chemical	Rating
Gasoline	A	Glycerin	A (250°F)
Glue	A		

Chemical	Rating	Chemical	Rating
n-Hexane	A	Hydrofluoric acid, 48%	A (212°F)
Hydrazine	C	Hydrofluoric acid, 75%	B (158°F)
Hydrochloric acid, 20%	A	Hydrofluoric acid, anhydrous	A
Hydrochloric acid, 20%	A (230°F)	Hydrogen	A
Hydrochloric acid, 37%	A (158°F)	Hydrogen peroxide, 90%	A
Hydrochloric acid, 37%	B (230°F)	Hydrogen peroxide, 90%	C (270°F)
Hydrocyanic acid	A	Hydrogen sulfide	B (270°F)

Chemical	Rating	Chemical	Rating
Isooctane	A	Isopropyl ether	C
Isopropyl alcohol	A		

Chemical	Rating	Chemical	Rating
JP-4	A (400°F)	JP-6	A (100°F)
JP-5	A (400°F)	JP-6	B (550°F)

Chemical	Rating	Chemical	Rating
Kerosene	A (158°F)	Kerosene	B (400°F)

Chemical	Rating	Chemical	Rating
Lacquer solvents	C	Linseed oil	A
Lactic acid	A	Lubricating oils	A (158°F)

Chemical	Rating	Chemical	Rating
Magnesium chloride solutions	A	Methyl ethyl keton	C
Magnesium hydroxide solutions	A	Methylene chloride	B (100°F)
Mercuric chloride solutions	A	Mineral oil	A
Mercury	A	Mobile XRM 206A (aircraft lube)	A (350°F)
Methyl alcohol	A-B		

Chemical	Rating	Chemical	Rating
Naphtha	A (150°F)	Nitric acid, 70%	A
Naphthalene	A (176°F)	Nitric acid, 70%	B (100°F)
Nitric acid, 10%	A	Nitric acid, red fuming	B
Nitric acid, 30%	A	Nitric acid, red fuming	C (158°F)
Nitric acid, 60%	A	Nitrobenzene	B

Chemical	Rating	Chemical	Rating
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Oleic acid	B	Oleum (red fuming sulfuric acid)	B (140°F)
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Chemical	Rating	Chemical	Rating
Palmitic acid	A	Pickling solution (20% nitric, 4% HF)	A
Perchloroethylene	A (212°F)	Pickling solution (17% nitric, 4% HF)	A
Phenol	A (212°F)	Pickling solution (20% nitric, 4% HF)	C (225°F)
Phenol	B (300°F)	Picric acid	A
Phosphoric acid, 20%	A	Potassium dichromate solutions	A
Phosphoric acid, 60%	A (212°F)	Potassium hydroxide solutions	A
Phosphoric acid, 70%	A	Pydraul 312°C	A
Phosphoric acid, 85%	A	Pyridine	C

Chemical	Rating	Chemical	Rating
QF1-2023 (silicone brake fluid)	A (392°F)		

Chemical	Rating	Chemical	Rating
SAE #10 Oil	A	Stannic chloride	A
Sea water	A	Stannous chloride, 15%	A
Shell turbine oil 307	B (392°F)	Stearic acid	T
Silicone grease	A	Styrene	A
Skydrol 500	C	Sulfur, molten	A (250°F)
Skylube 450	C (392°F)	Sulfur dioxide, liquid	A
Soap solutions	A	Sulfur dioxide, gas	A
Sodium chloride solutions	A	Sulfur trioxide	A
Sodium dichromate, 20%	A	Sulfuric acid, up to 5%	A
Sodium hydroxide, 20%	A	Sulfuric acid, 5-10%	A
Sodium hydroxide, 46%	A	Sulfuric acid, 10-50%	A
Sodium hydroxide, 46%	C (100°F)	Sulfuric acid, 50-80%	A
Sodium hydroxide, 50%	C	Sulfuric acid, 60%	A (250°F)
Sodium hydroxide, 73%	C	Sulfuric acid, 90%	A (158°F)
Sodium hypochlorite, 5%	A	Sulfuric acid, 95%	A
Sodium hypochlorite, 20%	B (158°F)	Sulfuric acid, 95%	A (158°F)
Sodium peroxide solutions	A	Sulfuric acid, fuming 20% oleum	A
Soybean oil	A (250°F)	Sonoco XS-820 (EP lube)	A (300°F)

Chemical	Rating	Chemical	Rating
Tannic acid, 10%	A	Trichlorethylene	B (158°F)
Tartaric acid	A	Tricresyl phosphate	A (300°F)
Tetrahydrofuran	C	Triethanolamine	C
Toluene	B (100°F)	Trisodium phosphate solutions	A
Tributyl phosphate	C (212°F)	Tung Oil	A
Trichlorethylene	A	Turpentine	A (158°F)

Chemical	Rating	Chemical	Rating
Xylene	A	Zinc chloride solutions	A
Xylene	A (212°F)		