

UltraCOMP™ Chemical Compatibility Guide

No. 5262B1-USA

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
1.1.1 Trichloroethane (Genklene*)	A		
1.2 Dichloroethane	A		
Acetaldehyde	A	A	
Acetic Acid, 10% Conc.	A	A	
Acetic Acid, Conc.	A	A	A
Acetic Acid, Glacial	A	A	
Acetone	A	A	
Acetonitrile	A		
Acetylene	A	A	
Acrylic Acid	A	A	
Adhesives (not cyanoacrylates)	A		
Aliphatic Esters	A	A	
Alum, Saturated	A	A	
Aluminum Chloride	A	A	
Aluminum Sulfate	A	A	
Ammonia 880	A		
Ammonia Anhydrous	A	A	A
Ammonia Aqueous	A	A	A
Ammonia Hydroxide, 10% Conc.	A		
Ammonium Chloride, 10% Conc.	A	A	
Ammonium Hydroxide, Conc.	A		
Ammonium Nitrate	A	A	
Amyl Acetate	A	A	
Aniline	A	B	
Antimony Trichloride	A	A	
Apple Juice	A		
Aqua Regia	C	C	C
Aromatic Solvents	A	A	
Aviation Hydraulic Fluid	A		
Aviation Spirit	A		
Barium Salts (Chloride, Sulfide)	A		
Beer	A	A	
Benzaldehyde	A		
Benzene	A	A	
Benzene Sulfonic Acid	C		
Benzoic Acid	A	A	

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
Benzyl Alcohol	A		
Bleach	A	A	
Boric Acid	A	A	
Brake Fluid (Mineral)	A	A	A
Brake Fluid (Polyglycol)	A	A	A
Brine	A	A	
Bromine	C	C	C
Bromine (Dry)	C	C	C
Bromine (Wet)	C	C	C
Bromine Water, Saturated	A	A	
Butane	A		
Butanol	A		
Butyl Acetate	A		
Calcium Bisulfide	A	A	
Calcium Carbonate	A		
Calcium Chloride	A	A	
Calcium Hydroxide	A		
Calcium Hypochlorite	A	A	
Calcium Nitrate	A		
Calcium Sulfate	A	A	
Carbolic Acid	A		
Carbon Dioxide (Dry)	A		
Carbon Disulfide	A	A	
Carbon Monoxide (Gas)	A	A	A
Carbon Tetrachloride	A	A	
Carbonic Acid	A	A	
Chlorine	C	C	C
Chloroacetic Acid	A	A	
Chloroform	A		
Chlorosulfonic Acid	C	C	C
Chorobenzene	A	A	
Chromic Acid, 40% Conc.	A		
Chromic Acid, Conc.	C	C	C
Citric Acid	A	A	
Cooking Oil	A		
Copper Acetate	A	A	

See key on back for description of letters A, B, C.

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
Copper Carbonate	A	A	
Copper Chloride	A	A	
Copper Cyanide	A	A	
Copper Fluoride	A	A	
Copper Nitrate	A	A	
Copper Sulfate	A	A	
Creosote	A		
Crude Oil	A		
Cupric Fluoride	A	A	
Cupric Sulfate	A	A	
Cuprous Chloride	A	A	
Cyclohexane	A	A	
Cyclohexanol	A		
Cyclohexanone	A		
Detergent Solutions (non-phenolic)	A	A	
Dibromoethane	A		
Dibutyl Phthalate	A		
Dichlorobenzene	A		
Dichloroethane	A		
Diesel Oil	A		
Diethylamine	A		
Diethylether	A	A	
Dimethyl Formamide (DMF)	A		
Dimethyl Phthalate	A		
Dimethylsulfoxide (DMSO)	B	B	
Diocetyl Phthalate	A		
Dioxane	A		
Diphenylsulfone (DPS)	B	C	C
Dowtherm A*			C
Dowtherm B			B
Dowtherm HT			B
Dowtherm LF			B
Edible Fats & Oils	A		
Ethane	A		
Ethanol	A	A	
Ether	A	A	
Ethyl Acetate	A		
Ethylene Dichloride	A		
Ethylene Glycol	A	A	B

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
Ethylene Glycol, 50% Conc.	A	A	A
Ethylene Nitrate	A		
Ethylene Oxide (EtO)	A		
Ethylene Sulfate	A		
Fatty Acids	A	A	
Ferric Chloride	B	B	
Ferric Nitrate	A		
Ferric Oxide	A	A	
Ferric Sulfate	A		
Ferrous Chloride	A		
Ferrous Nitrate	A		
Ferrous Sulfate	A	A	
Fluorine	C	C	C
Formaldehyde	A	A	
Formalin	A		
Formic Acid	B	B	
Freon* 11 Trichlorofluoromethane	A		
Freon 113 Trichlorotrifluoroethane	A		
Freon 114 1.1 Dichloro 1.2.2.2 Tetrafluoroethane	A		
Freon 12 Dichlorodifluoromethane	A		
Freon 134a	A		
Freon 22 Chlorodifluoromethane	A	A	
Freon 52	A	A	
Fruit Juice	A	A	
Fuel Oil	A		
Gas (Manufactured)	A		
Gas (Natural)	A		
Gasoline	A	A	
Gelatin	A	A	
Glycerol	A		
Glycols	A	A	
Heptane	A		
Hexane	A		
Hydraulic Fluid	A		
Hydrazine	A	A	
Hydrobromic Acid	C	C	C
Hydrochloric Acid, 10% Conc.	A	A	
Hydrochloric Acid, Conc.	A	B	

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
Hydrocyanic Acid	A	A	
Hydrofluoric Acid, 40% Conc.	C	C	C
Hydrogen Peroxide	A	A	
Hydrogen Sulfide (Gas)	A	A	A
Iodine	B		
Iso-Octane	A		
Isopropanol	A		
Kerosene	A		
Ketchup	A		
Ketones	A		
Lactic Acid	A	A	
Lead Acetate	A	A	
Lime	A	A	
Linseed Oil	A		
Lubricating Oil	A		
Magnesium Chloride	A	A	
Magnesium Hydroxide	A		
Magnesium Sulfate	A	A	
Maleic Acid	A	A	
Mercuric Chloride	A	A	
Mercurous Chloride	A		
Mercury	A	A	
Methane (Gas)	A	A	A
Methanol	A	A	
Methylene Chloride	A		
Methylethyl Ketone (MEK)	A	B	C
Milk	A	A	
Mineral Oil	A		
Molasses	A	A	
Motor Oil	A	A	A
N-Methyl-2-Pyrrolidone (NMP)	A		
Naphtha	A	A	
Naphthalene	A	A	
Nickel Acetate	A	A	
Nickel Chloride	A	A	
Nickel Nitrate	A	A	
Nickel Salts	A		
Nickel Sulfate	A	A	
Nitric Acid, 10% Conc.	A	A	

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
Nitric Acid, 30% Conc.	B		
Nitric Acid, 50% Conc.	C	C	C
Nitric Acid, Conc.	C	C	C
Nitrobenzene	A		C
Nitrogen	A		
Nitrous Acid, 10%	A		
Nitrous Oxide	A		
Oils (Di-Ester and Phosphate Ester Based)	A	A	
Oils (Petroleum)	A	A	
Oils (Vegetable)	A	A	
Oleic Acid	A		
Oleum	C	C	C
Olive Oil	A	A	
Oxalic Acid	A	A	
Oxygen	A		
Ozone	A	B	
Paraffin	A	A	
Peanut Oil	A	A	
Pentane	A		
Perchloric Acid	A	A	
Perchloroethylene	A	A	
Petroleum Ether	A		
Phenol (Conc.)	C	C	C
Phenol (Dilute)	A		
Phosphorous Chlorides	A	A	
Phosphoric Acid, 10% Conc.	A	A	A
Phosphoric Acid, 80% Conc.	A	A	
Phosphorous Pentoxide	A	A	
Phosphoric Acid, 50% Conc.	A	A	A
Phthalic Acid	A	A	
Picric Acid	A	A	
Potassium Aluminum Sulfate	A	A	
Potassium Bicarbonate	A		
Potassium Bromide	A	A	
Potassium Carbonate	A		
Potassium Chlorate	A	A	
Potassium Chloride	A	A	
Potassium Dichromate	A		
Potassium Ferricyanide	A		

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
Potassium Ferrocyanide	A		
Potassium Hydroxide	A	A	
Potassium Hydroxide, 10% Conc.	A		
Potassium Hydroxide, 70% Conc.	A		
Potassium Nitrate	A	A	
Potassium Permanganate	A		
Potassium Sulfate	A	A	
Potassium Sulfide	A		
Propane	A		
Propanol	A		
Pyridine	A	A	
Sewage	A	A	
Silicic Acid	A	A	
Silicone Fluids	A	A	
Silver Nitrate	A	A	
Skydrol* Hydraulic Fluid	A		
Soap Solution	A		
Sodium (Hot)	C	C	C
Sodium Acetate	A		
Sodium Bicarbonate	A		
Sodium Carbonate	A	A	
Sodium Chlorate	A	A	
Sodium Chloride	A	A	
Sodium Hydroxide, 10% Conc.	A	A	A
Sodium Hydroxide, 50% Conc.	A	A	A
Sodium Hydroxide, Conc.	A		
Sodium Hypochloride	A	A	
Sodium Nitrate	A	A	
Sodium Nitrite	A		
Sodium Peroxide	A	A	
Sodium Salts	A		
Sodium Silicate	A	A	
Sodium Sulfate	A	A	
Sodium Sulfide	A	A	
Sodium Sulfite	A	A	
Stannic Chloride	A	A	
Stannous Chloride	A	A	
Starch	A	A	
Steam	A	A	A
Styrene (Liquid)	A		

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
Sulfites	A	A	
Sulfur	A	A	
Sulfur Chloride	A	A	
Sulfur Dichloride	A	A	
Sulfur Dioxide	A	A	A
Sulfur Hexafluoride (Gas)	A		
Sulfur Trioxide	A	A	
Sulfuric Acid, <40% Conc.	B	B	B
Sulfuric Acid, >40% Conc.	C	C	C
Sulfurous Acid	A	A	
Tallow	A	A	
Tannic Acid, 10% Conc.	A	A	
Tar	A		
Tartaric Acid	A	A	
Tetraethyl Lead	A		
Tetrahydrofuran (THF)	A		
Toluene	A		
Transformer Oil	A	A	
Trichloroethylene	A	A	
Trifluoromethyl Sulfonic Acid	C	C	C
Turpentine	A		
Urea	A	A	
Varnish	A		
Vaseline *	A		
Vinegar	A	A	
Water	A	A	A
Water, Distilled	A	A	
Water, Sea/Salt	A	A	
Wax	A		
White Spirit	A		
Wines And Spirits	A		
Xylene*	A		
Yeast	A	A	
Zinc Chloride	A	A	
Zinc Sulfate	A	A	

KEY

A —No attack. Little or no absorption.
 B —Slight attack. Satisfactory use of UltraCOMP will depend on the application.
 C —Severe attack. UltraCOMP should not be used for any application where these chemicals are present.



Build With The Best!
 ISO 9001, QS 9000 Registered

Parker Hannifin Corporation
Engineered Polymer Systems Division
 Salt Lake City, UT 84119
 Phone: (801) 972-3000 • Fax: (801) 972-4777
 7/01 3.0M PL