ACETAL (POM) Chemical Compatibility Chart

Acetaldehyde	A-Excellent
Acetamide	A-Excellent
Acetate Solvent	N/A
Acetic Acid	D-Severe Effect
Acetic Acid 20%	C-Fair
Acetic Acid 80%	D-Severe Effect
Acetic Acid, Glacial	D-Severe Effect
Acetic Anhydride	D-Severe Effect
Acetone	A-Excellent
Acetyl Bromide	N/A
Acetyl Chloride (dry)	D-Severe Effect
Acetylene	A-Excellent
Acrylonitrile	N/A
Adipic Acid	N/A
Alcohols: Amyl	A-Excellent
Alcohols: Benzyl	A-Excellent
Alcohols: Butyl	A-Excellent
Alcohols: Diacetone	A-Excellent
Alcohols: Ethyl	A_1-Excellent
Alcohols: Hexyl	A-Excellent
Alcohols: Isobutyl	A-Excellent
Alcohols: Isopropyl	A-Excellent
Alcohols: Methyl	A-Excellent
Alcohols: Octyl	A-Excellent
Alcohols: Propyl	A-Excellent
Aluminum Chloride	N/A
Aluminum Chloride 20%	C-Fair
Aluminum Fluoride	C-Fair
Aluminum Hydroxide	A-Excellent
Aluminum Nitrate	B_1-Good
Aluminum Potassium Sulfate 10%	C-Fair
100%	C-Fair
Aluminum Sulfate	B_1-Good
Alums	N/A
Amines	D-Severe Effect
Ammonia 10%	D-Severe Effect
Ammonia Nitrate	C-Fair
Ammonia, anhydrous	D-Severe Effect
Ammonia, liquid	D-Severe Effect
Ammonium Acetate	N/A
Ammonium Bifluoride	D-Severe Effect
Ammonium Carbonate	D-Severe Effect
Ammonium Caseinate	D-Severe Effect
Ammonium Chloride	B-Good
Ammonium Hydroxide	C-Fair
Ammonium Nitrate	A_2-Excellent

Ammonium Oxalate	B-Good
Ammonium Persulfate	D-Severe Effect
Ammonium Phosphate, Tribasic	B-Good
Ammonium Sulfate	B_1-Good
Ammonium Sulfite	D-Severe Effect
Ammonium Thiosulfate	B-Good
Amyl Acetate	B_1-Good
Amyl Alcohol	A-Excellent
Amyl Chloride	A-Excellent
Aniline	A_1-Excellent
Aniline Hydrochloride	N/A
Antifreeze	D-Severe Effect
Antimony Trichloride	N/A
HNO3)	D-Severe Effect
Arochlor 1248	N/A
Aromatic Hydrocarbons	A-Excellent
Arsenic Acid	D-Severe Effect
Arsenic Salts	N/A
Asphalt	B_2-Good
Barium Carbonate	A-Excellent
Barium Chloride	A-Excellent
Barium Cyanide	B-Good
Barium Hydroxide	D-Severe Effect
Barium Nitrate	B_2-Good
Barium Sulfate	B_2-Good
Barium Sulfide	A-Excellent
Beer	A_1-Excellent
Beet Sugar Liquids	B-Good
Benzaldehyde	A-Excellent
Benzene	A_1-Excellent
Benzene Sulfonic Acid	N/A
Benzoic Acid	B-Good
Benzol	A-Excellent
Benzonitrile	N/A
Benzyl Chloride	A-Excellent
Bleaching Liquors	N/A
Borax (Sodium Borate)	B-Good
Boric Acid	A-Excellent
Brewery Slop	B-Good
Bromine	D-Severe Effect
Butadiene	A-Excellent
Butane	A-Excellent
Butanol (Butyl Alcohol)	A-Excellent
Butter	A-Excellent
Buttermilk	A-Excellent
Butyl Amine	C_1-Fair

Butyl Ether	D-Severe Effect
Butyl Phthalate	N/A
Butylacetate	A-Excellent
Butylene	A-Excellent
Butyric Acid	A-Excellent
Calcium Bisulfate	N/A
Calcium Bisulfide	D-Severe Effect
Calcium Bisulfite	D-Severe Effect
Calcium Carbonate	A-Excellent
Calcium Chlorate	A-Excellent
Calcium Chloride	D-Severe Effect
Calcium Hydroxide	D-Severe Effect
Calcium Hypochlorite	D-Severe Effect
Calcium Nitrate	D-Severe Effect
Calcium Oxide	A-Excellent
Calcium Sulfate	D-Severe Effect
Calgon	A-Excellent
Cane Juice	A-Excellent
Carbolic Acid (Phenol)	D-Severe Effect
Carbon Bisulfide	A-Excellent
Carbon Dioxide (dry)	A-Excellent
Carbon Dioxide (wet)	A-Excellent
Carbon Disulfide	A_1-Excellent
Carbon Monoxide	A-Excellent
Carbon Tetrachloride	B_1-Good
Carbon Tetrachloride (dry)	N/A
Carbon Tetrachloride (wet)	A_1-Excellent
Carbonated Water	A-Excellent
Carbonic Acid	B_1-Good
Catsup	B-Good
Chloric Acid	D-Severe Effect
Chlorinated Glue	D-Severe Effect
Chlorine (dry)	D-Severe Effect
Chlorine Water	D-Severe Effect
Chlorine, Anhydrous Liquid	A_1-Excellent
Chloroacetic Acid	D-Severe Effect
Chlorobenzene (Mono)	D-Severe Effect
Chlorobromomethane	N/A
Chloroform	A-Excellent
Chlorosulfonic Acid	D-Severe Effect
Chocolate Syrup	A-Excellent
Chromic Acid 10%	D-Severe Effect
Chromic Acid 30%	D-Severe Effect
Chromic Acid 5%	D-Severe Effect
Chromic Acid 50%	D-Severe Effect

Chromium Salts	N/A
Cider	A-Excellent
Citric Acid	B_1-Good
Citric Oils	B-Good
Copper Cyanide	A-Excellent
Copper Fluoborate	B-Good
Copper Nitrate	A-Excellent
Copper Sulfate>5%	D-Severe Effect
Copper Sulfate 5%	D-Severe Effect
Cream	A-Excellent
Cresols	D-Severe Effect
Cresylic Acid	D-Severe Effect
Cupric Acid	N/A
Cyanic Acid	D-Severe Effect
Cyclohexane	A_1-Excellent
Cyclohexanone	A-Excellent
Detergents	A_1-Excellent
Diacetone Alcohol	N/A
Dichlorobenzene	N/A
Dichloroethane	A_1-Excellent
Diesel Fuel	A-Excellent
Diethyl Ether	N/A
Diethylamine	B-Good
Diethylene Glycol	A_1-Excellent
Dimethyl Aniline	D-Severe Effect
Dimethyl Formamide	D-Severe Effect
Diphenyl	N/A
Diphenyl Oxide	D-Severe Effect
Dyes	C-Fair
Sulfate)	B-Good
Ethane	A_1-Excellent
Ethanol	A_1-Excellent
Ethanolamine	D-Severe Effect
Ether	A_1-Excellent
Ethyl Acetate	A-Excellent
Ethyl Benzoate	N/A
Ethyl Chloride	A_1-Excellent
Ethyl Ether	A_1-Excellent
Ethyl Sulfate	N/A
Ethylene Bromide	N/A
Ethylene Chloride	A_1-Excellent
Ethylene Chlorohydrin	D-Severe Effect
Ethylene Diamine	D-Severe Effect
Ethylene Dichloride	B_1-Good
Ethylene Glycol	B-Good

Ethylene Oxide	D-Severe Effect
Fatty Acids	A-Excellent
Ferric Chloride	D-Severe Effect
Ferric Nitrate	D-Severe Effect
Ferric Sulfate	D-Severe Effect
Ferrous Chloride	D-Severe Effect
Ferrous Sulfate	D-Severe Effect
Fluoboric Acid	A_1-Excellent
Fluorine	D-Severe Effect
Fluosilicic Acid	A_1-Excellent
Formaldehyde 100%	A-Excellent
Formaldehyde 40%	A_2-Excellent
Formic Acid	A_2-Excellent
Freon 113	A-Excellent
Freon 12	B-Good
Freon 22	A-Excellent
Freon TF	A-Excellent
Freonr 11	D-Severe Effect
Fruit Juice	D-Severe Effect
Fuel Oils	A-Excellent
Furan Resin	D-Severe Effect
Furfural	A-Excellent
Gallic Acid	N/A
Gasoline (high-aromatic)	B-Good
Gasoline, leaded, ref.	A-Excellent
Gasoline, unleaded	A-Excellent
Gelatin	B-Good
Glucose	A-Excellent
Glue, P.V.A.	A-Excellent
Glycerin	A-Excellent
Glycolic Acid	A-Excellent
Gold Monocyanide	A-Excellent
Grape Juice	A-Excellent
Grease	D-Severe Effect
Heptane	A-Excellent
Hexane	A-Excellent
Honey	A-Excellent
Hydraulic Oil (Petro)	B-Good
Hydraulic Oil (Synthetic)	N/A
Hydrazine	B-Good
Hydrobromic Acid 100%	D-Severe Effect
Hydrobromic Acid 20%	C-Fair
Hydrochloric Acid 100%	C-Fair
Hydrochloric Acid 20%	C-Fair
Hydrochloric Acid 37%	C-Fair

Hydrochloric Acid, Dry Gas	N/A
Hydrocyanic Acid	B-Good
Hydrocyanic Acid (Gas 10%)	C-Fair
Hydrofluoric Acid 100%	D-Severe Effect
Hydrofluoric Acid 20%	D-Severe Effect
Hydrofluosilicic Acid 100%	A-Excellent
Hydrofluosilicic Acid 20%	B-Good
Hydrogen Gas	N/A
Hydrogen Peroxide 10%	D-Severe Effect
Hydrogen Peroxide 100%	D-Severe Effect
Hydrogen Peroxide 30%	D-Severe Effect
Hydrogen Peroxide 50%	D-Severe Effect
Hydrogen Sulfide (aqua)	C-Fair
Hydrogen Sulfide (dry)	N/A
Hydroquinone	A-Excellent
Hydroxyacetic Acid 70%	A-Excellent
Ink	B-Good
Iodine	D-Severe Effect
Iodine (in alcohol)	D-Severe Effect
Iodoform	N/A
Isooctane	N/A
Isopropyl Acetate	D-Severe Effect
Isopropyl Ether	D-Severe Effect
Isotane	N/A
Jet Fuel (JP3, JP4, JP5)	A_1-Excellent
Kerosene	A_2-Excellent
Ketones	D-Severe Effect
Lacquer Thinners	D-Severe Effect
Lacquers	D-Severe Effect
Lactic Acid	B-Good
Lard	A-Excellent
Latex	B-Good
Lead Acetate	B-Good
Lead Nitrate	N/A
Lead Sulfamate	A-Excellent
Ligroin	B-Good
Lime	B-Good
Linoleic Acid	B-Good
Lithium Chloride	A-Excellent
Lithium Hydroxide	N/A
Lubricants	A-Excellent
Lye: Ca(OH)2 Calcium Hydroxide	D-Severe Effect
Lye: KOH Potassium Hydroxide	A-Excellent
Lye: NaOH Sodium Hydroxide	C-Fair
Magnesium Bisulfate	N/A

Magnesium Carbonate	A-Excellent
Magnesium Chloride	B_1-Good
Magnesium Hydroxide	A-Excellent
Magnesium Nitrate	A-Excellent
Magnesium Oxide	A-Excellent
Magnesium Sulfate (Epsom Salts)	B-Good
Maleic Acid	A-Excellent
Maleic Anhydride	D-Severe Effect
Malic Acid	A-Excellent
Manganese Sulfate	A_1-Excellent
Mash	A-Excellent
Mayonnaise	A-Excellent
Melamine	A-Excellent
Mercuric Chloride (dilute)	B-Good
Mercuric Cyanide	N/A
Mercurous Nitrate	N/A
Mercury	A-Excellent
Methane	A-Excellent
Methanol (Methyl Alcohol)	A-Excellent
Methyl Acetate	B-Good
Methyl Acetone	D-Severe Effect
Methyl Acrylate	B-Good
Methyl Alcohol 10%	A-Excellent
Methyl Bromide	D-Severe Effect
Methyl Butyl Ketone	D-Severe Effect
Methyl Cellosolve	D-Severe Effect
Methyl Chloride	B-Good
Methyl Dichloride	D-Severe Effect
Methyl Ethyl Ketone	C-Fair
Methyl Ethyl Ketone Peroxide	N/A
Methyl Isobutyl Ketone	N/A
Methyl Isopropyl Ketone	N/A
Methyl Methacrylate	D-Severe Effect
Methylamine	D-Severe Effect
Methylene Chloride	B-Good
Milk	A-Excellent
Mineral Spirits	A-Excellent
Molasses	A-Excellent
Monochloroacetic acid	D-Severe Effect
Monoethanolamine	D-Severe Effect
Morpholine	N/A
Motor oil	B-Good
Mustard	C-Fair
Naphtha	A_1-Excellent
Naphthalene	A_1-Excellent
Natural Gas	B-Good

Nickel Chloride	A-Excellent
Nickel Nitrate	N/A
Nickel Sulfate	A-Excellent
Nitrating Acid (<15% HNO3)	N/A
Nitrating Acid (>15% H2SO4)	D-Severe Effect
Nitrating Acid (S1% Acid)	N/A
Nitrating Acid (S15% H2SO4)	N/A
Nitric Acid (20%)	D-Severe Effect
Nitric Acid (50%)	D-Severe Effect
Nitric Acid (5-10%)	D-Severe Effect
Nitric Acid (Concentrated)	D-Severe Effect
Nitrobenzene	C-Fair
Nitrogen Fertilizer	N/A
Nitromethane	A-Excellent
Nitrous Acid	N/A
Nitrous Oxide	N/A
Oils: Aniline	D-Severe Effect
Oils: Anise	D-Severe Effect
Oils: Bay	D-Severe Effect
Oils: Bone	D-Severe Effect
Oils: Castor	A-Excellent
Oils: Cinnamon	D-Severe Effect
Oils: Citric	A-Excellent
Oils: Clove	N/A
Oils: Coconut	A-Excellent
Oils: Cod Liver	B-Good
Oils: Corn	A-Excellent
Oils: Cottonseed	A-Excellent
Oils: Creosote	D-Severe Effect
Oils: Diesel Fuel (20, 30, 40, 50)	D-Severe Effect
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	D-Severe Effect
Oils: Ginger	A-Excellent
Oils: Hydraulic Oil (Petro)	B-Good
Oils: Hydraulic Oil (Synthetic)	N/A
Oils: Lemon	D-Severe Effect
Oils: Linseed	A-Excellent
Oils: Mineral	A-Excellent
Oils: Olive	A-Excellent
Oils: Orange	D-Severe Effect
Oils: Palm	A-Excellent
Oils: Peanut	A-Excellent
Oils: Peppermint	D-Severe Effect
Oils: Pine	A-Excellent
Oils: Rapeseed	A-Excellent
Oils: Rosin	N/A
Oils: Sesame Seed	D-Severe Effect

Oils: Silicone	A-Excellent
Oils: Soybean	A-Excellent
Oils: Sperm (whale)	D-Severe Effect
Oils: Tanning	D-Severe Effect
Oils: Transformer	A-Excellent
Oils: Turbine	A-Excellent
Oleic Acid	A-Excellent
Oleum 100%	D-Severe Effect
Oleum 25%	D-Severe Effect
Oxalic Acid (cold)	B-Good
Ozone	C-Fair
Palmitic Acid	A-Excellent
Paraffin	A-Excellent
Pentane	B-Good
Perchloric Acid	C-Fair
Perchloroethylene	B-Good
Petrolatum	B-Good
Petroleum	B-Good
Phenol (10%)	B-Good
Phenol (Carbolic Acid)	D-Severe Effect
Phosphoric Acid (>40%)	D-Severe Effect
Phosphoric Acid (crude)	D-Severe Effect
Phosphoric Acid (molten)	D-Severe Effect
Phosphoric Acid (S40%)	D-Severe Effect
Phosphoric Acid Anhydride	D-Severe Effect
Phosphorus	B-Good
Phosphorus Trichloride	D-Severe Effect
Photographic Developer	D-Severe Effect
Photographic Solutions	D-Severe Effect
Phthalic Acid	C-Fair
Phthalic Anhydride	C-Fair
Picric Acid	A-Excellent
Plating 130°F	A-Excellent
110°F	A-Excellent
Speed Brass Bath 110°F	A-Excellent
Brass Bath 100°F	A-Excellent
Bronze Bath R.T.	A-Excellent
Bronze Bath 160°F	B-Good
Bronze Bath 100°F	A-Excellent
Cyanide Bath 90°F	A-Excellent
Fluoborate Bath 100°F	C-Fair
Barrel Chrome Bath 95°F	D-Severe Effect
Black Chrome Bath 115°F	D-Severe Effect
Chromic-Sulfuric Bath 130°F	D-Severe Effect
Fluoride Bath 130°F	D-Severe Effect
Fluosilicate Bath 95°F	D-Severe Effect

Copper Fluoborate Bath 120°F	C-Fair
Copper Sulfate Bath R.T.	A-Excellent
(Cyanide): Copper Strike Bath	A-Excellent
(Cyanide): High-Speed Bath	B-Good
(Cyanide): Rochelle Salt Bath	B-Good
Copper (Electroless)	D-Severe Effect
(Misc): Copper Pyrophosphate	A-Excellent
75°F	N/A
150°F	N/A
75°F	N/A
Sulfamate Plating R.T.	N/A
Am Sulfate Bath 150°F	N/A
Chloride Bath 190°F	N/A
Sulfate Bath 150°F	N/A
Fluoborate Bath 145°F	N/A
Sulfamate 140°F	N/A
Chloride Bath 160°F	N/A
Fluoborate Plating	N/A
Electroless 200°F	N/A
Fluoborate 100-170°F	N/A
Chloride 130-160°F	N/A
Sulfamate 100-140°F	N/A
Type 115-160°F	N/A
120°F	N/A
120°F	N/A
Plating 100°F	N/A
Plating 100°F	N/A
Chloride 140°F	N/A
Fluoborate Bath R.T.	N/A
Sulfate Bath 150°F	N/A
Cyanide Bath R.T.	N/A
Potash (Potassium Carbonate)	B-Good
Potassium Bicarbonate	C-Fair
Potassium Bromide	A-Excellent
Potassium Chlorate	B-Good
Potassium Chloride	A-Excellent
Potassium Chromate	C-Fair
Potassium Cyanide Solutions	C-Fair
Potassium Dichromate	A-Excellent
Potassium Ferricyanide	B_1-Good
Potassium Ferrocyanide	N/A
Potash)	A-Excellent
Potassium Hypochlorite	N/A
Potassium Iodide	N/A
Potassium Nitrate	A-Excellent
Potassium Oxalate	N/A

Potassium Permanganate	A-Excellent
Potassium Sulfate	B-Good
Potassium Sulfide	N/A
Propane (liquefied)	A-Excellent
Propylene	N/A
Propylene Glycol	B-Good
Pyridine	B-Good
Pyrogallic Acid	D-Severe Effect
Resorcinal	N/A
Rosins	B-Good
Rum	A-Excellent
Rust Inhibitors	A-Excellent
Salad Dressings	A-Excellent
Salicylic Acid	D-Severe Effect
Salt Brine (NaCl saturated)	N/A
Sea Water	A-Excellent
Shellac (Bleached)	A-Excellent
Shellac (Orange)	A-Excellent
Silicone	A-Excellent
Silver Bromide	C-Fair
Silver Nitrate	A-Excellent
Soap Solutions	A-Excellent
Carbonate)	A-Excellent
Sodium Acetate	B-Good
Sodium Aluminate	B-Good
Sodium Benzoate	N/A
Sodium Bicarbonate	A-Excellent
Sodium Bisulfate	B-Good
Sodium Bisulfite	C-Fair
Sodium Borate (Borax)	N/A
Sodium Bromide	A-Excellent
Sodium Carbonate	A_1-Excellent
Sodium Chlorate	A-Excellent
Sodium Chloride	A_1-Excellent
Sodium Chromate	D-Severe Effect
Sodium Cyanide	A-Excellent
Sodium Ferrocyanide	A-Excellent
Sodium Fluoride	N/A
Sodium Hydrosulfite	N/A
Sodium Hydroxide (20%)	A-Excellent
Sodium Hydroxide (50%)	A-Excellent
Sodium Hydroxide (80%)	D-Severe Effect
Sodium Hypochlorite (<20%)	D-Severe Effect
Sodium Hypochlorite (100%)	D-Severe Effect
Sodium Hyposulfate	N/A
Sodium Metaphosphate	B-Good

Sodium Metasilicate	D-Severe Effect
Sodium Nitrate	A-Excellent
Sodium Perborate	B-Good
Sodium Peroxide	D-Severe Effect
Sodium Polyphosphate	B-Good
Sodium Silicate	C-Fair
Sodium Sulfate	B-Good
Sodium Sulfide	B-Good
Sodium Sulfite	N/A
Sodium Tetraborate	B-Good
Sodium Thiosulfate (hypo)	C_1-Fair
Sorghum	A-Excellent
Soy Sauce	A-Excellent
Stannic Chloride	C-Fair
Stannic Fluoborate	C-Fair
Stannous Chloride	N/A
Starch	A-Excellent
Stearic Acid	A-Excellent
Stoddard Solvent	A-Excellent
Styrene	A-Excellent
Sugar (Liquids)	A-Excellent
Sulfate (Liquors)	D-Severe Effect
Sulfur Chloride	D-Severe Effect
Sulfur Dioxide	B-Good
Sulfur Dioxide (dry)	B-Good
Sulfur Hexafluoride	N/A
Sulfur Trioxide	N/A
Sulfur Trioxide (dry)	D-Severe Effect
Sulfuric Acid (<10%)	D-Severe Effect
Sulfuric Acid (10-75%)	D-Severe Effect
Sulfuric Acid (75-100%)	N/A
Sulfuric Acid (cold concentrated)	N/A
Sulfuric Acid (hot concentrated)	N/A
Sulfurous Acid	C-Fair
Sulfuryl Chloride	A-Excellent
Tallow	A-Excellent
Tannic Acid	B-Good
Tanning Liquors	B-Good
Tartaric Acid	B-Good
Tetrachloroethane	A-Excellent
Tetrachloroethylene	A-Excellent
Tetrahydrofuran	A-Excellent
Tin Salts	N/A
Toluene (Toluol)	C_1-Fair
Tomato Juice	B-Good
Trichloroacetic Acid	N/A

Trichloroethane	A-Excellent
Trichloroethylene	D-Severe Effect
Trichloropropane	A-Excellent
Tricresylphosphate	C-Fair
Triethylamine	D-Severe Effect
Trisodium Phosphate	A-Excellent
Turpentine	A_2-Excellent
Urea	A-Excellent
Uric Acid	N/A
Urine	A-Excellent
Varnish	A-Excellent
Vegetable Juice	A-Excellent
Vinegar	B-Good
Vinyl Acetate	N/A
Vinyl Chloride	N/A
Water, Acid, Mine	A_1-Excellent
Water, Deionized	N/A
Water, Distilled	B-Good
Water, Fresh	A_2-Excellent
Water, Salt	A-Excellent
Weed Killers	A-Excellent
Whey	A-Excellent
Whiskey & Wines	A-Excellent
White Liquor (Pulp Mill)	D-Severe Effect
White Water (Paper Mill)	B-Good
Xylene	A-Excellent
Zinc Chloride	C-Fair
Zinc Hydrosulfite	C-Fair
Zinc Sulfate	C-Fair

A = Excellent.
B = Good, Minor Effect, slight corrosion or discoloration
C = Fair, Moderate Effect, not recommended for continuous use. Softening, loss of strength, or swelling may occur.
D = Severe Effect, not recommended for ANY use.
N/A = Information not available.