

Chemical Compatibility Guide

Ultra-Track Pans, Composite Model, Standard Resin

For standard UltraTech Composite Track Pans

This listing was prepared to provide guidance to the chemical compatibility of Ultra-Track Pans, Composite Model.

The standard resin used in the fiberglass composite is susceptible to attack by some chemicals which may cause stress cracking, swelling, oxidation or may permeate the containment. These reactions may reduce the physical properties of the composite.

When considering an UltraTech Composite Track Pan for use in secondary containment applications, it is important to note that most secondary containment products are designed to hold leaked chemicals for only hours per day – at most one week. These secondary containment units would then be cleaned of any chemical. In these short-term applications, a greater variety of chemicals may be used with the standard fiberglass composite since the exposure time of the chemical to the resin is limited.

Chemical	Rating	Max Temp*	Chemical	Rating	Max Temp*	Chemical	Rating	Max Temp*	Chemical	Rating	Max Temp*
Acetic Acid, <80%	A	150°F (66°C)	Butyl Alcohol, 100%	A	140°F (66°C)	Furfural Alcohol	A	100°F (38°C)	Potassium Bicarbonate, 100%	A	190°F (88°C)
Acetic Acid, 80-100%	NR		Butyric Acid, <70%	A	70°F (21°C)	Glucose	A	140°F (60°C)	Potassium Carbonate, 100%	A	180°F (82°C)
Acetic Acid, 60%	A	180°F (82°C)	Calcium Bisulfate	A	140°F (60°C)	Glycerine	A	180°F (83°C)	Potassium Chloride, 100%	A	212°F (100°C)
Acetone, 50-100%	NR		Calcium Carbonate	A	140°F (60°C)	Glycolic Acid, <30%	A	180°F (83°C)	Potassium Ferricyanide, 100%	A	300°F (149°C)
Acetophenone	A	70°F (21°C)	Calcium Chloride, 100%	A	300°F (149°C)	Glycolic Acid, 30-100%	A	100°F (38°C)	Potassium Ferrocyanide, 100%	A	300°F (149°C)
Acrylic Acid	A	100°F (38°C)	Calcium Hydroxide, 100%	A	70°F (21°C)	Heptane	A	140°F (60°C)	Potassium Nitrate	A	300°F (149°C)
Acrylonitrile, 100%	NR		Calcium Nitrate, 100%	A	100°F (38°C)	Hydrobromic Acid, <50%	A	190°F (88°C)	Potassium Permanganate	A	180°F (82°C)
Alum, Potassium	A	150°F (66°C)	Calcium Sulfate	A	150°F (66°C)	Hydrogen Bromide <50%	A	190°F (88°C)	Potassium Persulfate	A	300°F (149°C)
Aluminum Chloride, 100%	A	300°F (149°C)	Caprylic Acid	A	160°F (71°C)	Hydroxyacetic Acid, <30%	A	180°F (83°C)	Potassium Sulfate	A	300°F (149°C)
Aluminum Potassium Sulfate	A	250°F (121°C)	Carbon Disulfide	NR		Hydroxyacetic Acid, 31-100%	A	100°F (38°C)	Silver Nitrate	A	104°F (40°C)
Aluminum Sulfate, 100%	A	300°F (121°C)	Carbonic Acid	A	140°F (60°C)	Hypochlorous Acid, 100%	A	300°F (149°C)	Sodium Acetate	A	300°F (149°C)
Ammonia, Aqueous, >30%	A	70°F (21°C)	Chloroacetic Acid, 100%	A	100°F (38°C)	Iron Chloride III, 20%	A	300°F (149°C)	Sodium Aluminate	NR	
Ammonium Acetate	NR		Chlorobenzene	NR		Isopropyl Alcohol, 100%	A	70°F (21°C)	Sodium Benzoate	A	300°F (149°C)
Ammonium Bicarbonate	A	150°F (66°C)	Citric Acid, 100%	A	300°F (149°C)	Kerosene	A	300°F (149°C)	Sodium Bicarbonate	A	150°F (66°C)
Ammonium Carbonate	A	150°F (66°C)	Copper Acetate	A	300°F (149°C)	Lactic Acid, 100%	A	300°F (149°C)	Sodium Bisulfate	A	180°F (82°C)
Ammonium Chloride	A	300°F (149°C)	Copper Chloride, 100%	A	300°F (149°C)	Lead Acetate	A	300°F (149°C)	Sodium Bisulfite	A	300°F (149°C)
Ammonium Citrate	A	300°F (149°C)	Copper Cyanide	A	250°F (121°C)	Lime Slurry, to saturated	A	180°F (82°C)	Sodium Borate	A	180°F (82°C)
Ammonium Hydroxide, 5%	A	212°F (100°C)	Copper Nitrate	A	300°F (149°C)	Lithium Chloride	NR		Sodium Bromide	A	300°F (149°C)
Ammonium Hydroxide, 10%	A	70°F (21°C)	Copper Sulfate, 100%	A	300°F (149°C)	Magnesium Carbonate, to saturated	A	300°F (149°C)	Sodium Carbonate	A	150°F (66°C)
Ammonium Hydroxide, 10%	NR	160°F (71°C)	Cresols	NR		Magnesium Chloride, 100%	A	250°F (121°C)	Sodium Chlorate	A	140°F (60°C)
Ammonium Hydroxide, >20%	NR		Dibutyl Ether	A	100°F (38°C)	Magnesium Nitrate	A	180°F (82°C)	Sodium Chloride	A	300°F (149°C)
Ammonium Nitrate	A	300°F (149°C)	Diesel Fuel	A	140°F (60°C)	Magnesium Sulfate	A	300°F (149°C)	Sodium Chlorite, to saturated	A	180°F (82°C)
Ammonium Persulfate	A	150°F (66°C)	Diethylene Glycol	A	140°F (60°C)	Mercuric Chloride, 100%	A	300°F (149°C)	Sodium Cyanide	A	180°F (82°C)
Ammonium Phosphate	NR		Diethyl Phthalate	NR		Mercurous Chloride, 100%	A	180°F (82°C)	Sodium Ferricyanide	A	300°F (149°C)
Ammonium Sulfate	A	120°F (49°C)	Diphenyl Ether	NR		Mercury, 100%	A	300°F (149°C)	Sodium Ferrocyanide	A	70°F (21°C)
Ammonium Thiocyanate	A	250°F (121°C)	Diphenyl Oxide	NR		Methanol, 37%	A	300°F (149°C)	Sodium Hydroxide, 5%	A	120°F (49°C)
Ammonium Thiosulfate	NR		Dipropylene Glycol	NR		Methyl Ethyl Ketone (MEK), 20%	A	70°F (21°C)	Sodium Hypochlorite (Bleach)	NR	
Amyl Acetate	A	120°F (49°C)	Dodecyl Alcohol	A	100°F (38°C)	Methylene Chloride	NR		Sodium Metaphosphate	A	140°F (60°C)
Amyl Alcohol	A	300°F (149°C)	Ethanol	A	140°F (60°C)	Mineral Oils	A	180°F (82°C)	Sodium Nitrate	A	300°F (149°C)
Amyl Chloride	NR		Ethyl Acetate	A	160°F (71°C)	Monochlorobenzene, 100%	A	212°F (100°C)	Sodium Sulfate	A	300°F (149°C)
Aniline Hydrochloride, 100%	A	300°F (149°C)	Ethylbenzene	A	212°F (100°C)	Monoethanolamine, 20%	A	194°F (90°C)	Sodium Sulfide	A	190°F (88°C)
Antifreeze, 100%	A	70°F (21°C)	Ethyl Ether	A	70°F (21°C)	Naptha	A	150°F (66°C)	Sodium Thiosulfate	A	140°F (60°C)
Antimony Pentachloride	NR		Ethylene Bromide	NR		Napthalene	A	300°F (149°C)	Sodium Tripolyphosphate	A	140°F (60°C)
Antimony Trichloride	A	190°F (88°C)	Ethylene Glycol	A	250°F (121°C)	Nickel Chloride, to saturated	A	250°F (121°C)	Styrene	NR	
Barium Acetate	NR		Fatty Acids	A	250°F (121°C)	Nickel Nitrate, to saturated	A	250°F (121°C)	Sulfuric Acid, <50%	A	180°F (82°C)
Barium Carbonate	A	140°F (60°C)	Ferric Chloride, 100%	A	225°F (107°C)	Nickel Sulfate, to saturated	A	250°F (121°C)	Sulfuric Acid, <70%	A	150°F (66°C)
Barium Chloride	A	140°F (60°C)	Ferric Nitrate	A	225°F (107°C)	Nitric Acid, 10%	NR		Sulfuric Acid, >70%	NR	
Barium Sulfate	A	140°F (60°C)	Ferric Sulfate	A	225°F (107°C)	Nitrous Acid, 10%	NR		Sulfurous Acid, 100%	A	300°F (149°C)
Barium Sulfide	A	140°F (60°C)	Ferrous Chloride	A	80°F (27°C)	Oleic Acid	A	160°F (71°C)	Tannic Acid, 10%	A	160°F (71°C)
Benzaldehyde	NR		Ferrous Nitrate	NR		Oxalic Acid, 100%	A	80°F (27°C)	Tartaric Acid	A	300°F (149°C)
Benzene	A	90°F (32°C)	Ferrous Sulfate	A	80°F (27°C)	Palmitic Acid, 100%	A	180°F (82°C)	Toluene	NR	
Benzene Sulfonic Acid, 10%	A	190°F (88°C)	Formaldehyde, <37%	A	300°F (149°C)	Perchloroethylene	NR		Turpentine	A	180°F (82°C)
Benzene Sulfonic Acid, 100%	A	75°F (24°C)	Formaldehyde, 50-100%	A	100°F (38°C)	Phenol	NR		Urea	A	180°F (82°C)
Benzoic Acid	A	140°F (60°C)	Formic Acid, <70%	A	70°F (21°C)	Phosphoric Acid, 85%	A	300°F (149°C)	Xylene	A	150°F (66°C)
Benzyl Alcohol	A	194°F (90°C)	Formic Acid, 50-100%	NR		Phosphorous Trichloride	A	180°F (82°C)	Zinc Chloride	A	200°F (93°C)
Boric Acid, 100%	A	140°F (60°C)	Fuel Oil	A	140°F (60°C)	Picric Acid, 1%	A	180°F (82°C)	Zinc Sulfate	A	160°F (71°C)
Butyl Acetate, 100%	A	140°F (60°C)	Furfural, Fumes	A	100°F (38°C)	Polyvinyl Acetate Emulsion	A	300°F (149°C)			

*Temperature of the chemical in the railcar and/or at the railcar filling source

Ratings: A: Acceptable - NR: Not Recommended

