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*
Acetic Acid, <80%	A	150˚F (66˚C)
Acetic Acid, 80-100%	NR	
Acetic Acid, 60%	A	180˚F (82˚C)
Acetone, 50-100%	NR	
Acetophenone	A	70°F (21°C)
Acrylic Acid	A	100°F (38°C)
Acrylonitrile, 100%	NR	
Alum, Potassium	A	150˚F (66˚C)
Aluminum Chloride, 100%	A	300˚F (149˚C)
Aluminum Potassium Sulfate	A	250˚F (121˚C)
Aluminum Sulfate, 100%	A	300˚F (121˚C)
Ammonia, Aqueous, >30%	A	70˚F (21˚C)
Ammonium Acetate	NR	
Ammonium Bicarbonate	A	150˚F (66˚C)
Ammonium Carbonate	A	150˚F (66˚C)
Ammonium Chloride	A	300˚F (149˚C)
Ammonium Citrate	A	300˚F (149˚C)
Ammonium Hydroxide, 5%	A	212˚F (100˚C)
Ammonium Hydroxide, 10%	A	70˚F (21˚C)
Ammonium Hydroxide, 10%	NR	160˚F (71˚C)
Ammonium Hydroxide, >20%	NR	
Ammonium Nitrate	A	300˚F (149˚C)
Ammonium Persulfate	A	150˚F (66˚C)
Ammonium Phosphate	NR	
Ammonium Sulfate	A	120˚F (49˚C)
Ammonium Thiocyanate	A	250˚F (121˚C)
Ammonium Thiosulfate	NR	
Amyl Acetate	A	120˚F (49˚C)
Amyl Alcohol	A	300˚F (149˚C)
Amyl Chloride	NR	
Aniline Hydrochloride, 100%	A	300˚F (149˚C)
Antifreeze, 100%	A	70˚F (21˚C)
Antimony Pentachloride	NR	
Antimony Trichloride	A	190˚F (88˚C)
Barium Acetate	NR	
Barium Carbonate	A	140˚F (60˚C)
Barium Chloride	A	140˚F (60˚C)
Barium Sulfate	A	140˚F (60˚C)
Barium Sulfide	A	140°F (60°C)
Benzaldehyde	NR	
Benzene	A	90˚F (32˚C)
Benzene Sulfonic Acid, 10%	A	190˚F (88˚C)
Benzene Sulfonic Acid, 100%	A	75˚F (24˚C)
Benzoic Acid	A	140˚F (60˚C)
Benzyl Alcohol	A	194°F (90°C)
Boric Acid, 100%	A	140˚F (60˚C)
Butyl Acetate, 100%	A	140˚F (60˚C)

Chemical	Rating	Max Temp*
Butyl Alcohol, 100%	A	140˚F (66˚C)
Butyric Acid, <70%	A	70˚F (21˚C)
Calcium Bisulfate	A	140˚F (60˚C)
Calcium Carbonate	A	140˚F (60˚C)
Calcium Chloride, 100%	A	300˚F (149˚C)
Calcium Hydroxide, 100%	A	70˚F (21˚C)
Calcium Nitrate, 100%	A	100˚F (38˚C)
Calcium Sulfate	A	150˚F (66˚C)
Caprylic Acid	A	160˚F (71˚C)
Carbon Disulfide	NR	
Carbonic Acid	A	140˚F (60˚C)
Chloroacetic Acid, 100%	A	100°F (38°C)
Chlorobenzene	NR	
Citric Acid, 100%	A	300˚F (149˚C)
Copper Acetate	A	300˚F (149˚C)
Copper Chloride, 100%	A	300˚F (149˚C)
Copper Cyanide	A	250˚F (121˚C)
Copper Nitrate	A	300˚F (149˚C)
Copper Sulfate, 100%	A	300˚F (149˚C)
Cresols	NR	
Dibutyl Ether	A	100˚F (38˚C)
Diesel Fuel	A	140˚F (60˚C)
Diethylene Glycol	A	140˚F (60˚C)
Dioctyl Phthalate	NR	
Diphenyl Ether	NR	
Diphenyl Oxide	NR	
Dipropylene Glycol	NR	
Dodecyl Alcohol	A	100°F (38°C)
Ethanol	A	140°F (60°C)
Ethyl Acetate	A	160°F (71°C)
Ethylbenzene	A	212°F (100°C)
Ethyl Ether	A	70°F (21°C)
Ethylene Bromide	NR	
Ethylene Glycol	A	250˚F (121˚C)
Fatty Acids	A	250˚F (121˚C)
Ferric Chloride, 100%	A	225˚F (107˚C)
Ferric Nitrate	A	225˚F (107˚C)
Ferric Sulfate	A	225˚F (107˚C)
Ferrous Chloride	A	80˚F (27˚C)
Ferrous Nitrate	NR	
Ferrous Sulfate	A	80°F (27˚C)
Formaldehyde, <37%	A	300˚F (149˚C)
Formaldehyde, 50-100%	A	100˚F (38˚C)
Formic Acid, <70%	A	70˚F (21˚C)
Formic Acid, 50-100%	NR	
Fuel Oil	A	140°F (60°C)
Furfural, Fumes	A	100˚F (38˚C)

Chemical	Rating	Max Temp*
Furfural Alcohol	A	100°F (38°C)
Glucose	A	140˚F (60˚C)
Glycerine	A	180°F (83°C)
Glycolic Acid, <30%	A	180˚F (83˚C)
Glycolic Acid, 30-100%	A	100˚F (38˚C)
Heptane	A	140˚F (60˚C)
Hydrobromic Acid, <50%	A	190˚F (88˚C)
Hydrogen Bromide <50%	A	190˚F (88˚C)
Hydroxyacetic Acid, <30%	A	180˚F (83˚C)
Hydroxyacetic Acid, 31-100%	A	100˚F (38˚C)
Hypochlorous Acid, 100%	A	300˚F (149˚C)
Iron Cloride III, 20%	A	300˚F (149˚C)
Isopropyl Alcohol, 100%	A	70˚F (21˚C)
Kerosene	A	300˚F (149˚C)
Lactic Acid, 100%	A	300˚F (149˚C)
Lead Acetate	A	300˚F (149˚C)
Lime Slurry, to saturated	A	180˚F (82˚C)
Lithium Chloride	NR	
Magnesium Carbonate, to saturated	A	300˚F (149˚C)
Magnesium Chloride, 100%	A	250˚F (121˚C)
Magnesium Nitrate	A	180˚F (82˚C)
Magnesium Sulfate	A	300˚F (149˚C)
Mercuric Chloride, 100%	A	300˚F (149˚C)
Mercurous Chloride, 100%	A	180˚F (82˚C)
Mercury, 100%	A	300˚F (149˚C)
Methanol, 37%	A	300˚F (149˚C)
Methyl Ethyl Ketone (MEK), 20%	A	70°F (21°C)
Methylene Chloride	NR	
Mineral Oils	A	180˚F (82˚C)
Monochlorinebenzene, 100%	A	212°F (100°C)
Monoethanolamine, 20%	A	194°F (90°C)
Naptha	A	150˚F (66˚C)
Napthalene	A	300˚F (149˚C)
Nickel Chloride, to saturated	A	250˚F (121˚C)
Nickel Nitrate, to saturated	A	250˚F (121˚C)
Nickel Sulfate, to saturated	A	250˚F (121˚C)
Nitric Acid, 10%	NR	
Nitrous Acid, 10%	NR	
Oleic Acid	A	160˚F (71˚C)
Oxalic Acid, 100%	A	80˚F (27˚C)
Palmitic Acid, 100%	A	180˚F (82˚C)
Perchloroethylene	NR	
Phenol	NR	
Phosphoric Acid, 85%	A	300˚F (149˚C)
Phosphorous Trichloride	A	180°F (82°C)
Picric Acid, 1%	A	180˚F (82˚C)
Polyvinyl Acetate Emulsion	A	300˚F (149˚C)

Chemical	Rating	Max Temp*
Potassium Bicarbonate, 100%	A	190˚F (88˚C)
Potassium Carbonate, 100%	A	180˚F (82˚C)
Potassium Chloride, 100%	A	212˚F (100˚C)
Potassium Ferricyanide, 100%	A	300˚F (149˚C)
Potassium Ferrocyanide, 100%	A	300˚F (149˚C)
Potassium Nitrate	A	300˚F (149˚C)
Potassium Permanganate	A	180˚F (82˚C)
Potassium Persulfate	A	300˚F (149˚C)
Potassium Sulfate	A	300˚F (149˚C)
Silver Nitrate	A	104˚F (40˚C)
Sodium Acetate	A	300˚F (149˚C)
Sodium Aluminate	NR	
Sodium Benzoate	A	300˚F (149˚C)
Sodium Bicarbonate	A	150˚F (66˚C)
Sodium Bisulfate	A	180˚F (82˚C)
Sodium Bisulfite	A	300˚F (149˚C)
Sodium Borate	A	180˚F (82˚C)
Sodium Bromide	A	300˚F (149˚C)
Sodium Carbonate	A	150˚F (66˚C)
Sodium Chlorate	A	140˚F (60˚C)
Sodium Chloride	A	300˚F (149˚C)
Sodium Chlorite, to saturated	A	180˚F (82˚C)
Sodium Cyanide	A	180˚F (82˚C)
Sodium Ferricyanide	A	300˚F (149˚C)
Sodium Ferrocyanide	A	70˚F (21˚C)
Sodium Hydroxide, 5%	A	120˚F (49˚C)
Sodium Hypochlorite (Bleach)	NR	
Sodium Metaphosphate	A	140˚F (60˚C)
Sodium Nitrate	A	300˚F (149˚C)
Sodium Sulfate	A	300˚F (149˚C)
Sodium Sulfide	A	190˚F (88˚C)
Sodium Thiosulfate	A	140˚F (60˚C)
Sodium Tripolyphosphate	A	140˚F (60˚C)
Styrene	NR	
Sulfuric Acid, <50%	A	180˚F (82˚C)
Sulfuric Acid, <70%	A	150˚F (66˚C)
Sulfuric Acid, >70%	NR	
Sulfurous Acid, 100%	A	300˚F (149˚C)
Tannic Acid, 10%	A	160˚F (71˚C)
Tartaric Acid	A	300˚F (149˚C)
Toluene	NR	
Turpentine	A	180˚F (82˚C)
Urea	A	180˚F (82˚C)
Xylene	A	150˚F (66˚C)
Zinc Chloride	A	200˚F (93˚C)
Zinc Sulfate	A	160˚F (71˚C)

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

Ratings: A: Acceptable · NR: Not Recommended

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