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PEEK Chemical Compatibility

Polyetherether Ketone (PEEK) Chemical Compatibility Chart: Check the chemical compatibility of PEEK with various chemicals, solvents, alcohols and other products.

PEEK is compatible with most solvents used in HPLC, aside from concentrated nitric acid, concentrated sulfuric acid, methylenechloride, DMSO and THF. PEEK tubing can safely withstand 20–30% nitric acid when passivating a system.

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Please Note: The information in this chart has been supplied by reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. ALWAYS test your equipment under the specific conditions of your application before permanent installation. The results of chemical behavior listed in this chart apply at a 48-hr exposure period. We have no knowledge of possible effects beyond this period. We do not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.

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Chemical	Compatibility
Acetaldehyde	A-Excellent
Acetamide	N/A
Acetate Solvent	N/A
Acetic Acid	A-Excellent
Acetic Acid 20%	A-Excellent
Acetic Acid 80%	A-Excellent
Acetic Acid, Glacial	N/A
Acetic Anhydride	N/A
Acetone	A-Excellent
Acetyl Bromide	N/A
Acetyl Chloride (dry)	N/A
Acetylene	A-Excellent
Acrylonitrile	A-Excellent
Adipic Acid	N/A
Alcohols: Isobutyl	A-Excellent
Alcohols: Isopropyl	A-Excellent
Alcohols: Methyl	A-Excellent
Alcohols: Octyl	N/A
Alcohols: Propyl	A-Excellent
Aluminum Chloride	A-Excellent
Aluminum Chloride 20%	A-Excellent
Aluminum Fluoride	N/A
Aluminum Hydroxide	N/A
Aluminum Nitrate	N/A
Aluminum Potassium Sulfate 10%	A-Excellent
Aluminum Potassium Sulfate 100%	A-Excellent
Aluminum Sulfate	A-Excellent
Alums	N/A
Amines	A-Excellent
Ammonia 10%	A-Excellent
Ammonia Nitrate	N/A
Ammonia, anhydrous	A-Excellent

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	B-Good
	N/A
Ammonium Bifluoride	N/A
Ammonium Carbonate	N/A
Ammonium Caseinate	N/A
Ammonium Chloride	N/A
Ammonium Hydroxide	A-Excellent
Ammonium Nitrate	A-Excellent
Ammonium Oxalate	N/A
Ammonium Persulfate	N/A
Ammonium Phosphate, Dibasic	N/A
Ammonium Phosphate, Monobasic	N/A
Ammonium Phosphate, Tribasic	N/A
Ammonium Sulfate	N/A
Ammonium Sulfite	N/A
Ammonium Thiosulfate	N/A
Amyl Acetate	A-Excellent
Amyl Alcohol	A-Excellent
Amyl Chloride	N/A
Aniline	A-Excellent
Aniline Hydrochloride	N/A
Antifreeze	A-Excellent
Antimony Trichloride	A-Excellent
Aqua Regia (80% HCl, 20% HNO ₃)	D-Severe Effect
Arochlor 1248	A-Excellent
Aromatic Hydrocarbons	A-Excellent
Arsenic Acid	N/A
Arsenic Salts	N/A
Asphalt	A-Excellent
Barium Carbonate	N/A
	A-Excellent
	N/A
	N/A
	N/A
	N/A
	N/A
	A-Excellent
Beer	A-Excellent
Beet Sugar Liquids	N/A
Benzaldehyde	A-Excellent
Benzene	A-Excellent
Benzene Sulfonic Acid	D-Severe Effect
Benzoic Acid	A-Excellent
Benzol	N/A
Benzonitrile	N/A
Benzyl Chloride	N/A
Bleaching Liquors	N/A
Borax (Sodium Borate)	A-Excellent
Boric Acid	A-Excellent
Brewery Slop	N/A
Bromine	D-Severe Effect
Butadiene	N/A
Butane	A-Excellent
Butanol (Butyl Alcohol)	A-Excellent
Butter	N/A

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	N/A
	A-Excellent
Butyl Ether	N/A
Butyl Phthalate	A-Excellent
Butylacetate	A-Excellent
Butylene	A-Excellent
Butyric Acid	A-Excellent
Calcium Bisulfate	N/A
Calcium Bisulfide	A-Excellent
Calcium Bisulfite	N/A
Calcium Carbonate	A-Excellent
Calcium Chlorate	N/A
Calcium Chloride	A-Excellent
Calcium Hydroxide	A-Excellent
Calcium Hypochlorite	A-Excellent
Calcium Nitrate	A-Excellent
Calcium Oxide	A-Excellent
Calcium Sulfate	A-Excellent
Calgon	A-Excellent
Cane Juice	N/A
Carbolic Acid (Phenol)	D-Severe Effect
Carbon Bisulfide	D-Severe Effect
Carbon Dioxide (dry)	A-Excellent
Carbon Dioxide (wet)	B-Good
Carbon Disulfide	D-Severe Effect
Carbon Monoxide	B-Good
Carbon Tetrachloride	A-Excellent
Carbon Tetrachloride (dry)	N/A
Carbon Tetrachloride (wet)	N/A
Carbonated Water	N/A
	A-Excellent
	A-Excellent
	N/A
	N/A
	A-Excellent
	D-Severe Effect
Chlorine, Anhydrous Liquid	D-Severe Effect
Chloroacetic Acid	A-Excellent
Chlorobenzene (Mono)	A-Excellent
Chlorobromomethane	N/A
Chloroform	A-Excellent
Chlorosulfonic Acid	A-Excellent
Chocolate Syrup	N/A
Chromic Acid 10%	D-Severe Effect
Chromic Acid 30%	A-Excellent
Chromic Acid 5%	A-Excellent
Chromic Acid 50%	D-Severe Effect
Chromium Salts	N/A
Cider	N/A
Citric Acid	A-Excellent
Citric Oils	A-Excellent
Clorox® (Bleach)	B-Good
Coffee	N/A
Copper Chloride	A-Excellent

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	A-Excellent
	A-Excellent
Freon 22	A-Excellent
Freon TF	A-Excellent
Freonr 11	A-Excellent
Fruit Juice	A-Excellent
Fuel Oils	A-Excellent
Furan Resin	N/A
Furfural	N/A
Gallic Acid	N/A
Gasoline (high-aromatic)	N/A
Gasoline, leaded, ref.	A-Excellent
Gasoline, unleaded	N/A
Glycerin	A-Excellent
Glycolic Acid	N/A
Gold Monocyanide	N/A
Grape Juice	N/A
Grease	N/A
Heptane	A-Excellent
Hexane	A-Excellent
Honey	N/A
Hydraulic Oil (Petro)	A-Excellent
Hydraulic Oil (Synthetic)	A-Excellent
Hydrazine	A-Excellent
Hydrobromic Acid 100%	D-Severe Effect
Hydrobromic Acid 20%	D-Severe Effect
Hydrochloric Acid 100%	A-Excellent
Hydrocyanic Acid (5-10%)	A-Excellent
Hydrocyanic Acid (10-20%)	A-Excellent
Hydrocyanic Acid (20-30%)	A-Excellent
Hydrocyanic Acid (30-40%)	A-Excellent
Hydrocyanic Acid (40-50%)	A-Excellent
Hydrocyanic Acid (50-60%)	A-Excellent
Hydrocyanic Acid (60-70%)	A-Excellent
Hydrocyanic Acid (70-80%)	A-Excellent
Hydrocyanic Acid (80-90%)	A-Excellent
Hydrocyanic Acid (90-100%)	A-Excellent
Hydrofluoric Acid 20%	D-Severe Effect
Hydrofluoric Acid 50%	D-Severe Effect
Hydrofluoric Acid 75%	D-Severe Effect
Hydrofluosilicic Acid 100%	N/A
Hydrofluosilicic Acid 20%	N/A
Hydrogen Gas	N/A
Hydrogen Peroxide 10%	A-Excellent
Hydrogen Peroxide 100%	A-Excellent
Hydrogen Peroxide 30%	A-Excellent
Hydrogen Peroxide 50%	A-Excellent
Hydrogen Sulfide (aqua)	A-Excellent
Hydrogen Sulfide (dry)	A-Excellent
Hydroquinone	N/A
Hydroxyacetic Acid 70%	N/A
Ink	N/A
Iodine	C-Fair
Iodine (in alcohol)	A-Excellent
Iodoform	N/A

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Cart

	N/A
	A-Excellent
Methyl Isopropyl Ketone	A-Excellent
Methyl Methacrylate	N/A
Methylamine	N/A
Methylene Chloride	A-Excellent
Milk	A-Excellent
Mineral Spirits	N/A
Molasses	A-Excellent
Monochloroacetic acid	A-Excellent
Monoethanolamine	N/A
Morpholine	N/A
Motor oil	A-Excellent
Mustard	N/A
Phthalic anhydride	A-Excellent
Naphthalene	A-Excellent
Natural Gas	A-Excellent
Nickel Chloride	A-Excellent
Nickel Nitrate	A-Excellent
Nickel Sulfate	A-Excellent
Nitrating Acid (<15% HNO3)	N/A
Nitrating Acid (>15% H2SO4)	N/A
Nitrating Acid (S1% Acid)	N/A
Nitrating Acid (S15% H2SO4)	N/A
Nitric Acid (20%)	A-Excellent
Nitric Acid (50%)	D-Severe Effect
Nitric Acid (5-10%)	A-Excellent
Nitric Acid (Concentrated)	D-Severe Effect
Nitrobenzene	A-Excellent
Nitrogen Fertilizer	N/A
	A-Excellent
	N/A
	A-Excellent
	A-Excellent
	N/A
CP Lab Rewards	N/A
Oils: Bone	N/A
Oils: Castor	A-Excellent
Oils: Cinnamon	N/A
Oils: Citric	N/A
Oils: Clove	N/A
Oils: Coconut	A-Excellent
Oils: Cod Liver	N/A
Oils: Corn	N/A
Oils: Cottonseed	N/A
Oils: Creosote	A-Excellent
Oils: Diesel Fuel Oil (20, 30, 40, 50)	A-Excellent
Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6)	A-Excellent
Oils: Ginger	N/A
Oils: Hydraulic Oil (Petro)	A-Excellent
Oils: Hydraulic Oil (Synthetic)	A-Excellent
Oils: Lemon	N/A
Oils: Linseed	A-Excellent
Oils: Mineral	A-Excellent

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Cart

	N/A
	N/A
Oils: Palm	N/A
Oils: Peanut	A-Excellent
Oils: Peppermint	N/A
Oils: Pine	N/A
Oils: Rapeseed	N/A
Oils: Rosin	N/A
Oils: Sesame Seed	N/A
Oils: Silicone	A-Excellent
Oils: Soybean	A-Excellent
Oils: Sperm (whale)	N/A
Is: Tanning	N/A
Is: Transformer	A-Excellent
Is: Turbine	N/A
Oleic Acid	A-Excellent
Oleum 100%	N/A
Oleum 25%	N/A
Oxalic Acid (cold)	A-Excellent
Ozone	A-Excellent
Palmitic Acid	N/A
Paraffin	A-Excellent
Pentane	A-Excellent
Perchloric Acid	A-Excellent
Perchloroethylene	A-Excellent
Petrolatum	A-Excellent
Petroleum	A-Excellent
Phenol (10%)	N/A
Phenol (Carbolic Acid)	D-Severe Effect
Phosphoric Acid (>40%)	A-Excellent
	A-Excellent
	N/A
	N/A
	N/A
	N/A
	N/A
	A-Excellent
Photographic Developer	N/A
Photographic Solutions	A-Excellent
Phthalic Acid	A-Excellent
Phthalic Anhydride	N/A
Picric Acid	A-Excellent
Plating Solutions, Antimony Plating 130°F	N/A
Plating Solutions, Arsenic Plating 110°F	N/A
Plating Solutions (Brass): High-Speed Brass Bath 110°F	N/A
Plating Solutions (Brass): Regular Brass Bath 100°F	N/A
Plating Solutions (Bronze): Cu-Cd Bronze Bath R.T.	N/A
Plating Solutions (Bronze): Cu-Sn Bronze Bath 160°F	N/A
Plating Solutions (Bronze): Cu-Zn Bronze Bath 100°F	N/A
Plating Solutions (Cadmium): Cyanide Bath 90°F	N/A
Plating Solutions (Cadmium): Fluoborate Bath 100°F	N/A
Plating Solutions, (Chromium): Barrel Chrome Bath 95°F	N/A
Plating Solutions, (Chromium): Black Chrome Bath 115°F	N/A
Plating Solutions, (Chromium): Chromic-Sulfuric Bath 130°F	N/A
Plating Solutions, (Chromium): Fluoride Bath 130°F	N/A

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Cart

	N/A
	N/A
Plating Solutions (Copper) (Acid): Copper Sulfate Bath R.T.	N/A
Plating Solutions (Copper) (Cyanide): Copper Strike Bath 120°F	N/A
Plating Solutions (Copper) (Cyanide): High-Speed Bath 180°F	N/A
Plating Solutions (Copper) (Cyanide): Rochelle Salt Bath 150°F	N/A
Plating Solutions (Copper) (Misc): Copper (Electroless)	N/A
Plating Solutions (Copper) (Misc): Copper Pyrophosphate	N/A
Plating Solutions (Gold): Acid 75°F	N/A
Plating Solutions (Gold): Cyanide 150°F	N/A
Plating Solutions (Gold): Neutral 75°F	N/A
Plating Solutions, Indium Sulfamate Plating R.T.	N/A
Plating Solutions (Iron): Ferrous Am Sulfate Bath 150°F	N/A
Plating Solutions (Iron): Ferrous Chloride Bath 190°F	N/A
Plating Solutions (Iron): Ferrous Sulfate Bath 150°F	N/A
Plating Solutions (Iron): Fluoborate Bath 145°F	N/A
Plating Solutions (Iron): Sulfamate 140°F	N/A
Plating Solutions (Iron): Sulfate-Chloride Bath 160°F	N/A
Plating Solutions, Lead Fluoborate Plating	N/A
Plating Solutions, (Nickel): Electroless 200°F	N/A
Plating Solutions, (Nickel): Fluoborate 100-170°F	N/A
Plating Solutions, (Nickel): High-Chloride 130-160°F	N/A
Plating Solutions, (Nickel): Sulfamate 100-140°F	N/A
Plating Solutions, (Nickel): Watts Type 115-160°F	N/A
Plating Solutions (Rhodium) 120°F	N/A
Plating Solutions, (Silver) 80-120°F	N/A
Plating Solutions, Tin-Fluoborate Plating 100°F	N/A
Plating Solutions, Tin-Lead Plating 100°F	N/A
Plating Solutions (Zinc): Acid Chloride 140°F	N/A
Plating Solutions (Zinc): Acid Fluoborate Bath R.T.	N/A
Plating Solutions (Zinc): Acid Fluoborate Bath 150°F	N/A
Plating Solutions (Zinc): Acid Fluoborate Bath R.T.	N/A
	A-Excellent
	A-Excellent
	N/A
	A-Excellent
Potassium Chloride	A-Excellent
Potassium Chromate	N/A
Potassium Cyanide Solutions	N/A
Potassium Dichromate	N/A
Potassium Ferricyanide	A-Excellent
Potassium Ferrocyanide	A-Excellent
Potassium Hydroxide (Caustic 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	A-Excellent
Potassium Sulfide	A-Excellent
Propane (liquefied)	A-Excellent
Propylene	N/A
Propylene Glycol	N/A
Pyridine	A-Excellent

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Side (60%)

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Sodium Hypochlorite (100%)

Sodium Hyposulfate

Sodium Metaphosphate

Sodium Metasilicate

Sodium Nitrate

Sodium Perborate

Sodium Peroxide

Sodium Polyphosphate

Sodium Silicate

Sodium Sulfate

Sodium Sulfide

Sodium Sulfite

Sodium Tetraborate

Sodium Thiosulfate (hypo)

Sorghum

Soy Sauce

Stannic Chloride

Stannic Fluoborate



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	N/A
	N/A
Xylene	A-Excellent
Zinc Chloride	A-Excellent
Zinc Hydrosulfite	N/A
Zinc Sulfate	A-Excellent

Explanation of Footnotes

- ¹ Satisfactory to 72°F (22°C)
- ² Satisfactory to 120°F (48°C)

Ratings: Chemical Effect

- 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.
- A = Information not available.

CAUTION: Variations in chemical behavior during handling due to factors such as temperature, pressure, and concentrations can cause equipment to fail, even though it passed an initial test.

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