



ZINTEK™ MATERIAL

Chemical Compatibility

Zintek™ is a proprietary, conductive formulation of a high-performance thermoplastic polyphenylene sulfide (PPS) resin. In addition to its conductive properties, Zintek™ material has overall excellent chemical and elevated temperature resistance properties. The information included in the table below should be used as a guideline to assess material/chemical compatibility.

Chemical 200°F (93°C)	Concentration (concentrated unless noted)	Resistance	Chemical 200°F (93°C)	Concentration (concentrated unless noted)	Resistance
Acetaldehyde		+	Carbon Disulfide		+
Acetic Acids		+	Carbon Tetrachloride (wet)		0
Acetic Anhydride Acid		+	Cellosolves		+
Acetic Acid, Glacial		+	Chlorobenzene (dry)		+
Acetone		+	2-Chloroethanol		+
Acetonitrile		+	Chloroform		0
Acetophenone		+	Chlorophenol	5% Aqueous	+
Acetylene		+	Chlorosulfonic Acid		-
Acetyl Chloride (dry)		+	Chlorine (dry)		0
Acid Mine Water		+	Chromic Acid		+
Alcohol, Amyl		+	Cottonseed Oil		+
Alcohol, Butyl		+	M-Cresol (crude)		+
Alcohol, 2-Aminoethanol		+	Cresyldiphenyl Phosphate		+
Aluminum Chloride (dry)		+	Crude Oil		+
Aluminum Sulfate		+	Copper Sulfate		+
Aluminum Chlorohydroxide (wet)		+	Cyclohexane		+
Ammonia, Anhydrous		+	Cyclohexanol		+
Ammonium Chloride		+	Cyclohexanone		+
Ammonium Hydroxide		+	Detergents		+
Ammonium Nitrate		+	Diesel Fuel		+
Ammonium Sulfate		+	Disobutylene		+
Amyl Acetate		+	Dimethyl Aniline		+
Aniline		0	Dimethyl Formamide		+
Asphalt Emulsions		+	Dimethyl Phthalate		+
Barium Hydroxide		+	Dimethyl Sulfoxide		+
Barium Chloride		+	Diphenyl Ether		+
Barium Sulfate		+	Diocetyl Phthalate		+
Benzene		+	p-Dioxane		+
Benzaldehyde		0	Dowtherm		+
Benzene Sulfonic Acid		+	Epichlorohydrin (dry)		+
Benzonitrile		+	Ethanolamine		+
Benzyl Chloride		+	Ethers		+
Borax		+	Ethyl Acetate		+
Bromine (wet)		-	Ethyl Chloride (wet)		+
Butadiene		+	Ethylene Chloride		+
Butane		+	Ethylene Diamine		0
Butylene		+	Ethylene Dichloride		0
Butyl Acetate		+	Ethylene Glycol		+
Butyl Amine		0	FC-77 (Cyclic Fluorinated Ether)		+
Butyl Ether		+	Ferric Chloride		+
Butyl Phthalate		+	Ferrous Chloride		+
Calcium Chloride		+	Flo-Cool 180 (Silicate Ester)		+
Calcium Nitrate		+	Fluorosilicic Acid	25%	+
Calcium Sulfate		+	Formaldehyde	37%	+
Carbon Dioxide		+	Formic Acid		0

KEY + Acceptable 0 Restricted Use - Not Recommended

Chemical 200°F (93°C)	Concentration (concentrated unless noted)	Resistance	Chemical 200°F (93°C)	Concentration (concentrated unless noted)	Resistance
Freon (dry)		+	Potassium Chloride		+
Fuel Oil		+	Potassium Hydroxide	50%	+
Furan		+	Potassium Permanganate		+
Furfural		+	Propylene Chlorohydrin		0
Gasoline		+	Pyridine		+
Glycolic Acid		+	Sodium Bicarbonate		+
Heptane		+	Sodium Carbonate		+
Hexane		+	Sodium Chloride		+
Hydrochloric Acid	20%	0	Sodium Chromate		+
Hydrochloric Acid	37%	0	Sodium Hydroxide	15%	+
Hydrofluoric Acid	5-75%	-	Sodium Hydroxide	30%	+
Hydrogen Gas		+	Sodium Hydroxide	50%	+
Hydrogen Peroxide	30%	0	Sodium Hypochlorite Soln.		0
Hydrogen Sulfide (wet)		+	Sodium Sulfate		+
Kerosene		+	Sodium Sulfide		+
Kerosene JP Fuels		+	Sodium Thiosulfate		+
Ketones		+	Steam—300°F		+
Lactic Acid		+	Stoddard Solvent		+
LPG		+	Sulfinol		+
Lubricating Oil		+	Sulfolane		+
Magnesium Chloride		+	Sulfur Dioxide		+
Magnesium Hydroxide		+	Sulfuric Acid	30%	+
Methylene Chloride		+	Sulfuric Acid	50%	+
Methyl Ethyl Ketone		+	Sulfuric Acid	98%	0
Methyl Isobutyl Ketone		+	Tetrahydrofuran		+
Mineral Oil		+	Tetramethyl Ammonium Hydroxide		+
Morpholine		0	Toluene		+
Motor Oil		+	Tomato Juice		+
Naphtha		+	Trichloroethylene		0
Naphthalene		+	Trichloroacetic Acid		+
Nitric Acid	10%	-	Triethyl Phosphate		+
Nitric Acid	35%	-	Triphenyl Phosphite		+
Nitric Acid	(conc.)	-	Trisodium Phosphate		+
Nitrobenzene		0	Turpentine (dry)		+
Nitrogen		+	Vinegar		+
Nitromethane		0	Water, Deionized		+
Perchloroethylene (dry)		+	Water, Sea		+
Phenol		+	Water, Tap		+
Phosphoric Acid		+	Xylene		+
Phosphorus Trichloride (dry)		+	Zinc Chloride		+

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Note: All data is taken from information supplied by material manufacturers. Entegris, Inc. is not responsible for the accuracy of this data and disclaims any obligation or liability in connection with its use in buyer's applications. Contact Entegris if questions concerning applications arise.

For More Information

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