

Chemical Resistance of Materials*

S= Superior Resistance, L=Limited , M=Moderate Resistance, U=Unsatisfactory Resistance , ND = No Data Available

	Polycarbonate	PVC	Fiber Glass Polyester	Stainless Steel 304	Neoprene Rubber	Powdercoated Steel	Aluminum
Acetyldehyde	ND	U	U	S	S	ND	S
Acetic Acid (10%)	S	L	S	S	U	U	L
Acetone	U	U	L	S	U	L	S
Aluminum Chloride (10%)	S	S	S	U	S	U	U
Aluminum Sulfate (10%)	S	S	S	U	U	U	L
Ammonia Gas	ND	ND	S	S	S	ND	L
Ammonium Chloride	S	S	S	S	S	U	U
Ammonium Hydroxide (10%)	U	S	L	S	L	U	S
Ammonium Nitrate (10%)	U	S	S	S	U	U	M
Ammonium Phosphate (10%)	S	ND	M	S	U	S	L
Ammonium Sulfate	ND	S	S	S	S	ND	S
Aniline	ND	S	U	S	U	ND	L
ASTM #1 Oil	M	ND	S	S	M	S	S
ASTM #3 Oil	M	ND	S	S	U	S	S
Axle Grease	M	ND	S	S	L	S	S
Benzene	ND	U	S	S	U	ND	S
Boric Acid (10%)	S	L	S	S	S	U	M
Bromine	U	U	L	U	U	U	U
Butyl Acid (10%)	ND	U	S	S	U	ND	M
Butyric Acid	ND	U	S	S	U	ND	U
Calcium Chloride (10%)	S	S	S	L	S	U	L
Calcium Hydroxide (10%)	S	S	S	S	U	U	U
Calcium Hypochlorite (10%)	S	S	M	U	U	U	L
Calcium Sulfate	S	S	S	S	S	U	M
Carbolic Acid (25%)	U	ND	L	S	U	U	M
Carbon Disulfide	ND	U	L	S	U	ND	S
Carbon Tetrachloride	U	L	M	U	U	U	S
Chlorine (Dry)	ND	L	S	S	ND	ND	S
Chlorine (water) 5-10 ppm	S	L	L	U	L	S	M

	Polycarbonate	PVC	Fiber Glass Polyester	Stainless Steel 304	Neoprene Rubber	Powdercoated Steel	Aluminum
Chlorobenzene	ND	U	S	S	U	ND	S
Chloroform	ND	U	U	S	U	ND	L
Chrome Plating Solution	S	ND	L	L	U	U	U
Chromic Acid	ND	L	S	U	U	ND	S
Citric Acid (10%)	S	S	M	S	U	U	U
Copper Sulfate	ND	S	S	S	S	ND	U
Creosote	ND	ND	L	S	U	ND	L
Cutting Fluid (5 Star) 10%	M	ND	S	S	U	U	S
Cutting Fluid (Norton 205)	L	ND	S	S	S	U	U
Cutting Fluid (Rustlick) 10%	S	ND	S	S	S	U	M
Cutting Oil (Dark)	S	ND	S	S	U	S	S
Diethyl Ether	ND	U	S	S	ND	ND	S
Ethyl Alcohol	M	S	S	S	L	M	S
Ethylene Glycol	S	S	L	S	S	ND	S
Ferric Chloride	S	S	S	S	L	U	U
Ferric Nitrate	ND	S	S	S	S	ND	
Ferric Sulfate	ND	S	S	S	S	ND	M
Fluorine	ND	L	U	M	ND	ND	S
Formaldehyde	ND	L	S	L	U	ND	S
Formic Acid	S	L	S	M	U	U	U
Fuel Oil #2	S	S	S	S	U	M	S
Gasoline	ND	S	M	S	U	ND	S
Glycerine	ND	S	S	S	S	ND	S
Hydraulic Brake Fluid	U	ND	S	S	U	U	S
Hydraulic Oil	M	ND	S	S	U	S	S
Hydrochloric Acid (10%)	S	S	M	U	L	U	U
Hydrocyanic Acid	ND	S	U	S	S	ND	S
Hydrofluoric Acid (20%)	M	L	U	U	U	U	U
Hydrogen Peroxide	ND	S	M	L	U	ND	S
Hydrogen Sulfide	ND	S	S	L	U	ND	M

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Hydrochlorus Acid	ND	ND	S	ND	ND	ND	U
Isopropyl Alcohol	S	ND	S	S	S	M	S
Kerosene	M	S	S	S	U	S	S
Lacquer Thinner	U	ND	S	S	U	L	S
Lactic Acid	ND	S	S	L	L	ND	M
Lime	ND	ND	M	ND	S	ND	M
Liquid Dish Soap (10%)	S	S	S	S	L	U	M
Lubricating Oils	ND	ND	S	S	U	ND	S
Magnesium Chloride (10%)	S	S	S	S	S	U	L
Magnesium Hydroxide (10%)	S	S	S	S	S	U	L
Mercuric Chloride (10%)	S	L	M	S	U	U	U
Milk	ND	S	S	S	S	ND	S
Mineral Oil	ND	S	S	S	L	ND	S
Mineral Spirits	M	ND	S	S	U	S	S
Motor Oil (10 wt)	S	ND	S	S	U	S	S
Nickel Salts	ND	S	S	L	U	ND	L
Nitric Acid (10%)	L	S	M	S	U	U	U
Nitrobenzene	ND	U	L	S	U	ND	S
Oleic Acid	ND	S	S	L	ND	ND	S
Perchlorethylene	U	ND	S	S	U	S	S
Phosphoric Acid (25%)	S	S	L	S	S	U	U
Phosphoric Acid (50%)	S	S	U	S	S	U	U
Pickling Solution	S	ND	M	S	L	U	U
Potassium Carbonate (10%)	S	L	S	S	S	S	U
Potassium Chloride (25%)	S	S	S	S	S	U	L
Potassium Hydroxide (25%)	U	S	U	M	U	U	U
Potassium Nitrate (10%)	S	S	S	S	S	U	U
Potassium Sulfate (10%)	S	S	S	S	S	U	L
Soap (Igepal 10%)	S	S	S	S	U	S	L
Sodium Bicarbonate (10%)	S	S	S	S	S	S	L

	Polycarbonate	PVC	Fiber Glass Polyester	Stainless Steel 304	Neoprene Rubber	Powdercoated Steel	Aluminum
Sodium Bisulfate (10%)	S	S	L	S	S	U	U
Sodium Chloride (25%)	S	S	S	S	S	U	L
Sodium Hydroxide	U	S	U	M	U	U	U
Sodium Hypochlorite	S	S	M	S	U	U	U
Sodium Nitrate (10%)	S	S	S	S	S	U	M
Sodium Phosphate (10%)	S	S	S	S	U	U	L
Sulfuric Acid (25%)	S	S	S	S	S	U	U
Sulfuric Acid (10%)	S	S	U	S	U	U	U
Tannic Acid (10%)	S	S	S	M	U	U	L
Tetrahydrofuran	U	ND	L	S	U	U	M
Toluene	U	U	S	S	U	L	S
Trichloroethylene	ND	U	U	L	U	ND	S
Trisodium Phosphate	ND	S	M	ND	ND	ND	L
Turpentine	S	ND	M	S	U	M	S
Vegetable Oils	ND	S	S	S	L	ND	S
Vinegar	ND	ND	S	S	L	ND	M
Water, Industrial	S	S	S	S	S	L	L
Water, Rain	S	S	S	S	S	S	L
Water, Sea	S	S	S	S	S	U	L
Water, Tap	S	S	S	S	S	S	L
Xylene	U	ND	S	S	U	L	S
Zinc Acetate	ND	ND	S	S	ND	ND	S
Zinc Carbonate	M	S	S	M	M	S	L
Zinc Sulfate	ND	S	S	M	S	ND	L

*** This Chemical Resistance Table is provided to help specifiers determine if a specific material is appropriate for use in a specific environment. This information is provided as a guideline only.**