

Lumax Pumps - Chemical Compatibility Chart

LX-1323 - Stainless Steel Rotary Barrel Pump

Caution: The Materials List below is to be referred for Guidance only in selecting Equipment for Appropriate Chemical Compatibility. ALWAYS Test your Equipment under the Specific Conditions of your Application before Permanent Installation. Ratings of Chemical Behavior listed in this Manual apply at a 48 Hour Exposure Period. Lumax has No Knowledge of Possible Effects beyond this Period. All Recommendations are Based on Room Temperature (72°F/22°C) Exposure. Compatibility Results may deviate from these Recommendations at Elevated Temperatures. Recommendations are based on Presence of Listed Chemical Only. Mixtures containing more than one Chemical can greatly affect Chemical Compatibility. Polypropylene Products and Components should not be used with Low Flash Point Chemicals, regardless of Chemical Compatibility Results. Failure, Improper Selection, or Improper Use of the Products referred to and described herein or related items can cause Severe Personal Injury or Property Damage. This Document provides Product Options for further Investigation by Users having Technical expertise. It is Important that you Analyze all Aspects of your Application and Review the information concerning the Product or System.

Ratings: Chemical Effect



Good



Not Recommended

Chemical	
Acetaldehyde	Not Recommended
Acetic Acid 20-50%	Good
Acetic Anhydride	Not Recommended
Acetone	Not Recommended
Alcohol: Amyl	Good
Alcohol: Benzyl	Good
Alcohol: Butyl	Good
Alcohol: Diacetone	Not Recommended
Alcohol: Ethyl (Ethanol)	Good
Alcohol: Hexyl (1-Hexanol)	Good
Alcohol: Isobutyl	Good
Alcohol: Isopropyl	Good
Alcohol: Methyl (Methanol)	Not Recommended
Alcohol: Propyl	Good
Aluminum Sulfate	Not Recommended
Ammonia, Anhydrous	Not Recommended
Ammonia Liquids	Not Recommended
Ammonium Hydroxide	Good
Anti-Freeze (Alcohol Base)	Good
Anti-Freeze (Glycol Base)	Good
Benzene	Good
Benzoic Acid	Good
Bleach Solutions	Good
Boric Acid - 30%	Good
Brake Fluid (Hexylene Glycol)	Not Recommended
Calcium Carbonate	Good
Calcium Chloride	Good
Calcium Hypochlorite - 20%	Good
Calcium Sulfate	Good
Chlorine, Wet	Good
Chlorox	Good
Citric Acid	Good
Copper Chloride	Not Recommended
Copper Sulfate	Good
Detergent Solutions	Good
Diesel Oil (Fuel ASTM #2)	Good
Ethyl Acetate	Good
Ethylene Glycol	Good
Formaldehyde	Good
Formic Acid	Not Recommended

Chemical	
Fruit Juices	Good
Fuel Oils (ASTM #1 thru #9)	Good
Gasoline (Unleaded)	Good
Gasoline (Petrol)	Good
Glycerol (Glycerine)	Good
Grease	Not Recommended
Heptane (Brake Cleaner)	Good
Hexane	Good
Hexyl Alcohol (Hexanol)	Good
Hexylene Glycol (Brake Fluid)	Not Recommended
Hydraulic Oil	Good
Hydrochloric Acid - 20%	Not Recommended
Hydrochloric Acid - 30%	Not Recommended
Hydrogen Peroxide - 30%	Good
Isobutyl Alcohol	Good
Isopropyl Alcohol	Good
Jet Fuels (JP1 to JP6)	Good
Kerosene	Good
Lacquers	Not Recommended
Lacquer Solvents	Not Recommended
Lactic Acid	Good
Lubricating Oils (Petroleum)	Good
Methyl Ethyl Ketone	Not Recommended
Mineral Oil (Petroleum)	Good
Motor Oil	Good
Naphtha	Good
Nitric Acid - 50%	Good
Oils, Animal	Good
Oils, Mineral	Good
Oils, Vegetable	Good
Oxalic Acid	Good
Petroleum (Crude Oil)	Good
Phosphoric Acid - 50%	Good
Photographic Developer	Good
Potassium Chloride	Good
Potassium Hydroxide (Caustic Potash)	Good
Propylene Glycol	Good
Salt Water (Brine)	Good
Sea Water (Brine)	Good
Silicone Oils	Good

Chemical	
Soap Solutions	Good
Soda Ash (Sodium Carbonate)	Good
Sodium Bicarbonate	Good
Sodium Chlorate	Good
Sodium Chloride	Good
Sodium Chromate	Good
Sodium Hydroxide - 50%	Not Recommended
Sodium Hypochlorite (Bleach)	Not Recommended
Sodium Nitrate	Good
Sodium Nitrite	Good
Sodium Peroxide	Good
Sodium Phosphate	Good
Sodium Silicates	Good
Sodium Sulfate	Good
Sodium Sulfide	Good
Sodium Sulfite	Good
Stearic Acid	Good
Stoddard Solvent	Good
Sulfuric Acid - 75%	Not Recommended
Tallow	Good
Toluene, Toluol	Good
Transformer Oil	Good
Transmission Fluid (Type A)	Good
Trichlorethane	Good
Trichlorethylene	Not Recommended
Turpentine	Good
Urea/DEF/Ad Blue	Good
Varnish	Good
Vegetable Juices	Good
Vegetable Oils	Good
Vinegar	Good
Water, Distilled (Deionized)	Good
Water, Fresh	Good
Wines	Good
Xylene	Good
Zinc Chloride	Good
Zinc Sulfate	Good