

# Lumax Pumps - Chemical Compatibility Chart

## LX-1318 - Rotary Barrel Pump, Cast-Iron

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

Chemical	
Fruit Juices	Not Recommended
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)	Not Recommended
Hexylene Glycol (Brake Fluid)	Good
Hydraulic Oil	Good
Hydrochloric Acid - 20%	Not Recommended
Hydrochloric Acid - 30%	Not Recommended
Hydrogen Peroxide - 30%	Not Recommended
Isobutyl Alcohol	Not Recommended
Isopropyl Alcohol	Good
Jet Fuels (JP1 to JP6)	Good
Kerosene	Good
Lacquers	Good
Lacquer Solvents	Good
Lactic Acid	Not Recommended
Lubricating Oils (Petroleum)	Good
Methyl Ethyl Ketone	Good
Mineral Oil (Petroleum)	Good
Motor Oil	Good
Naphtha	Good
Nitric Acid - 50%	Not Recommended
Oils, Animal	Good
Oils, Mineral	Good
Oils, Vegetable	Good
Oxalic Acid	Not Recommended
Petroleum (Crude Oil)	Good
Phosphoric Acid - 50%	Not Recommended
Photographic Developer	Not Recommended
Potassium Chloride	Good
Potassium Hydroxide (Caustic Potash)	Good
Propylene Glycol	Good
Salt Water (Brine)	Not Recommended
Sea Water (Brine)	Not Recommended
Silicone Oils	Good

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