

# Lumax Pumps - Chemical Compatibility Chart

## LX-1338 - Gallon Fluid 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%	Not Recommended
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	Not Recommended
Alcohol: Isopropyl	Not Recommended
Alcohol: Methyl (Methanol)	Good
Alcohol: Propyl	Good
Aluminum Sulfate	Good
Ammonia, Anhydrous	Not Recommended
Ammonia Liquids	Not Recommended
Ammonium Hydroxide	Not Recommended
Anti-Freeze (Alcohol Base)	Good
Anti-Freeze (Glycol Base)	Good
Benzene	Not Recommended
Benzoic Acid	Not Recommended
Bleach Solutions	Not Recommended
Boric Acid - 30%	Good
Brake Fluid (Hexylene Glycol)	Not Recommended
Calcium Carbonate	Not Recommended
Calcium Chloride	Good
Calcium Hypochlorite - 20%	Not Recommended
Calcium Sulfate	Good
Chlorine, Wet	Not Recommended
Chlorox	Not Recommended
Citric Acid	Good
Copper Chloride	Not Recommended
Copper Sulfate	Not Recommended
Detergent Solutions	Good
Diesel Oil (Fuel ASTM #2)	Not Recommended
Ethyl Acetate	Not Recommended
Ethylene Glycol	Good
Formaldehyde	Good
Formic Acid	Not Recommended

Chemical	
Fruit Juices	Good
Fuel Oils (ASTM #1 thru #9)	Good
Gasoline (Unleaded)	Not Recommended
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%	Not Recommended
Isobutyl Alcohol	Good
Isopropyl Alcohol	Not Recommended
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	Not Recommended
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	Not Recommended
Potassium Hydroxide (Caustic Potash)	Not Recommended
Propylene Glycol	Good
Salt Water (Brine)	Good
Sea Water (Brine)	Good
Silicone Oils	Good

Chemical	
Soap Solutions	Not Recommended
Soda Ash (Sodium Carbonate)	Not Recommended
Sodium Bicarbonate	Good
Sodium Chlorate	Good
Sodium Chloride	Not Recommended
Sodium Chromate	Not Recommended
Sodium Hydroxide - 50%	Not Recommended
Sodium Hypochlorite (Bleach)	Not Recommended
Sodium Nitrate	Not Recommended
Sodium Nitrite	Good
Sodium Peroxide	Not Recommended
Sodium Phosphate	Not Recommended
Sodium Silicates	Not Recommended
Sodium Sulfate	Good
Sodium Sulfide	Not Recommended
Sodium Sulfite	Good
Stearic Acid	Not Recommended
Stoddard Solvent	Not Recommended
Sulfuric Acid - 75%	Not Recommended
Tallow	Good
Toluene, Toluol	Not Recommended
Transformer Oil	Good
Transmission Fluid (Type A)	Good
Trichlorethane	Not Recommended
Trichlorethylene	Not Recommended
Turpentine	Not Recommended
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	Good
Wines	Not Recommended
Xylene	Not Recommended
Zinc Chloride	Good
Zinc Sulfate	Not Recommended