

# Lumax Pumps - Chemical Compatibility Chart

## LX-1361 - Diaphragm Pump, 110V~120V, 50/60Hz. for DEF/Urea/AdBlue

*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	Not Recommended
Alcohol: Benzyl	Not Recommended
Alcohol: Butyl	Not Recommended
Alcohol: Diacetone	Not Recommended
Alcohol: Ethyl (Ethanol)	Not Recommended
Alcohol: Hexyl (1-Hexanol)	Not Recommended
Alcohol: Isobutyl	Not Recommended
Alcohol: Isopropyl	Not Recommended
Alcohol: Methyl (Methanol)	Not Recommended
Alcohol: Propyl	Not Recommended
Aluminum Sulfate	Not Recommended
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%	Not Recommended
Brake Fluid (Hexylene Glycol)	Not Recommended
Calcium Carbonate	Not Recommended
Calcium Chloride	Not Recommended
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	Good
Diesel Oil (Fuel ASTM #2)	Not Recommended
Ethyl Acetate	Not Recommended
Ethylene Glycol	Not Recommended
Formaldehyde	Not Recommended
Formic Acid	Not Recommended

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

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