Primary Applications

**Air Treatment** – Lithium products are utilized in absorption chillers, in the dehumidification process, in molecular sieves, and in the desiccant process.

**Construction** – Lithium used to prevent Alkali-Silica Reactivity (ASR) in concrete extending concrete life and to protect from corrosion of rebar in concrete in passive cathodic inhibiting systems

**Energy** – enables the storage of power and the transfer of ions during battery charging and storage, and the transfer of electrons during discharging

**Fine Chemicals** – Lithium organometallics are used to manufacture pharmaceutical and crop protection products.

**Glass & Ceramics** – Lithium oxide is a widely used as flux for processing silica, reducing the melting point and viscosity of the material and leading to glazes ceramic sinks, tiles, and glass stove tops with improved physical properties

**Greases & Lubricants** – Lithium products are used as a thickening agent to maintain grease consistency, water resistance, and viscosity performance across wide temperature ranges

**Pharmaceuticals** – as a catalyst in pharmaceutical production of some cholesterol-reducing drugs, and as a mood-stabilizing drug, in the treatment of bipolar disorder, depression, and mania

**Polymers** – Lithium aids increased gas mileage for vehicle tires and improved durability of thermoplastic elastomers used in asphalt, adhesives and sealants.

**Pool Treatment** – Lithium hypochlorite, a granular chlorine product for swimming pools and spas, is used as a premium shock that maintains the chemical balance of the water principally in vinyl lined pools in cold and hard water environments