CHEMPORT
Specialty Chemical Experts



GREASE & LUBRICANT ADDITIVES

We offer a portfolio of specialty raw materials and ingredients, ranging from lithium and molybdenum thickener technologies to polymers, sebacic acid, and multifunctional additive packages—ideal for manufacturing high-performance greases.

Chemport • Bulk Chemicals and Specialty Performance Materials •
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LITHIUM ADDITIVES

Lithium Carbonate
Lithium Carbonate technical, super fines and ultra fines grades are available in various particle sizes with a 99% Li_2CO_3 minimum content and tightly controlled particle size distribution parameters.

Lithium Hydroxide Low Dust Grade
Lithium Hydroxide Low Dust Grade is oil dampened which reduces airborne particles. This is the product of choice when occupational health and safety considerations are a priority for operators.

Lithium Hydroxide Technical Grade
Lithium Hydroxide Technical Grade is a high purity (56.5% LiOH min) lithium hydroxide monohydrate form, with a particle size of less than 1mm, highly suitable for making lithium greases.

WAXES & SPECIALTY THICKENERS

Hydrogenated Castor Oil (HCO)
Hydrogenated Castor Oil (HCO) is a hard, wax-like solid used as a thickener, stabilizer, and lubricity enhancer in greases and lubricants. It improves viscosity, thermal stability, and consistency while reducing oil separation in finished formulations. With a high melting point and excellent oxidative stability, HCO is suited for high-performance grease systems and specialty lubricant blends.

MOLYBDENUM ADDITIVES

Molybdenum Disulphide - MOLYTROL™
Molybdenum disulphide is an inorganic compound with the formula MoS_2. Its reactivity is low, rendering it resistant to dilute acids. In terms of its appearance and feel, molybdenum disulphide is similar to graphite and, like graphite, it is widely used as a solid lubricant. It is often incorporated as a component in blends and composites where low friction is required.

Molybdenum Trioxide - MOLYTROL™
Molybdenum trioxide can be formulated with molybdenum disulphide to create a solid lubricating material consisting essentially of an intimate mixture containing approximately 15 to 50 mole percent molybdenum trioxide blended with molybdenum disulphide. This material is particularly useful under extreme environmental conditions such as very high temperatures or under vacuum.

Molybdenum Friction Modifiers - MOLYTROL™
MOLYTROL™ Friction Modifiers and anti-wear products are widely used as lubricant additives in greases and oils, including engine and industrial oils. The specially formulated molybdenum complexes in the MOLYTROL™ range provide excellent antioxidation, anti-wear, and friction-reducing properties even under extreme pressure and high temperatures. The MOLYTROL™ range has both liquid and powder options available.

Corrosion Inhibitors - MOLYTROL™
MOLYTROL™ Corrosion Inhibitor products are widely used as lubricant additives in greases and oils, including engine and industrial oils. The specially formulated compounds and chemical composition of the MOLYTROL™ range provide lubricants with excellent antioxidation and corrosion inhibiting properties, even under extreme pressure and high temperatures. The MOLYTROL™ Corrosion Inhibitor range is available in a ready to mix liquid.

Organic Molybdenum Friction Modifier (MoDTP)
Liquid molybdenum dithiophosphate additive providing friction reduction, anti-wear, extreme-pressure, and antioxidant performance in engine oils, industrial lubricants, metalworking fluids, and greases.

STEARIC ACID & STEARATES

Aluminium Stearate
As a thickener and gelling agent, aluminium stearate is widely used for greases that operate at high temperatures. It improves the greases' lubricating, water-repelling, and anti-rusting abilities. It also makes the greases more viscous and stable, and stops them from separating.

Calcium Stearate
Calcium stearate enhances the performance and quality of greases and lubricants by forming a thin film on the metal surfaces of machinery and equipment, reducing friction and wear. It also prevents oil separation, bleeding, and oxidation, and improves the flow and moldability of the material. Calcium stearate is suitable for high temperature applications, as it has a high dropping point of 150°C (300°F).

Zinc Stearate
Zinc stearate is a white, waxy powder that has excellent water resistance, thermal stability and lubricating properties. It is compatible with other metallic stearates and additives, and can be easily blended with various base oils and solvents.

Stearic Acid Triple Pressed
Stearic Acid Triple Pressed is composed of primarily stearic acid, a saturated long chain fatty acid derived from vegetable oils. Its surfactant properties lead to its widespread use in a variety of industries. Upon request, we supply stearic acid with customised specifications to suit your requirements.

Lithium Stearate
Lithium stearate is a soft white solid classified as a lithium soap. It is commonly used in greases and lubricants for its strong thickening ability with mineral and synthetic oils, enhancing both viscosity and stability.

12-Hydroxystearic Acid (12-HSA)
Hydroxyl-functional fatty acid widely used as a raw material in the manufacture of lubricating greases and specialty lubricants. Its functional properties support grease thickening, consistency and performance, making it suitable for lithium, calcium and other specialty grease systems.

GUMS

Welan Gum
Welangum is used in grease and lubricants as a thickener, stabiliser, and anti-caking agent. It has excellent rheological properties, such as salt resistance, thermotolerance, and good pH stability. It is also an ecofriendly oil displacement agent for oil recovery.

Xanthan Gum
Xanthan gum is a natural polysaccharide that is produced by the fermentation of sugar by a specific bacterium. Xanthan gum improves the performance and quality of greases and lubricants by increasing their viscosity and stability under different conditions. It also helps to form a protective film on the metal surfaces of machinery and equipment, reducing friction and wear. Xanthan gum is compatible with most mineral and synthetic base oils, as well as other additives and thickeners. Xanthan gum is suitable for high temperature applications due to its strong thermal stability and resistance to degradation.

SPECIALTY GREASE ADDITIVES

Benzoic Acid
Benzoic acid is a white, crystalline organic compound that is derived from benzoin resin or synthesized from toluene. It is commonly used in the production of aluminium complex greases, which are ideal for high temperature applications such as electric motors, compressors, and bearings. Benzoic acid reacts with aluminium hydroxide to form aluminium benzoate, a thickener that provides excellent water resistance, thermal stability, and anti-corrosion properties to the grease.

Calcium Sulfonate
Calcium sulfonate is a very alkaline liquid that is often used as a thickener, emulsifier and corrosion inhibitor for lubricants. It works well with most mineral base oils, white oils, and synthetic base stocks. It is a key ingredient for making calcium sulfonate greases and engine oils. We offer TBN 300 (OB) and TBN 400 (HOB) calcium sulfonate with different flashpoints and specifications to suit your needs. Calcium sulfonate grease provides extreme pressure (EP) and anticorrosion performance without requiring additional additives.

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