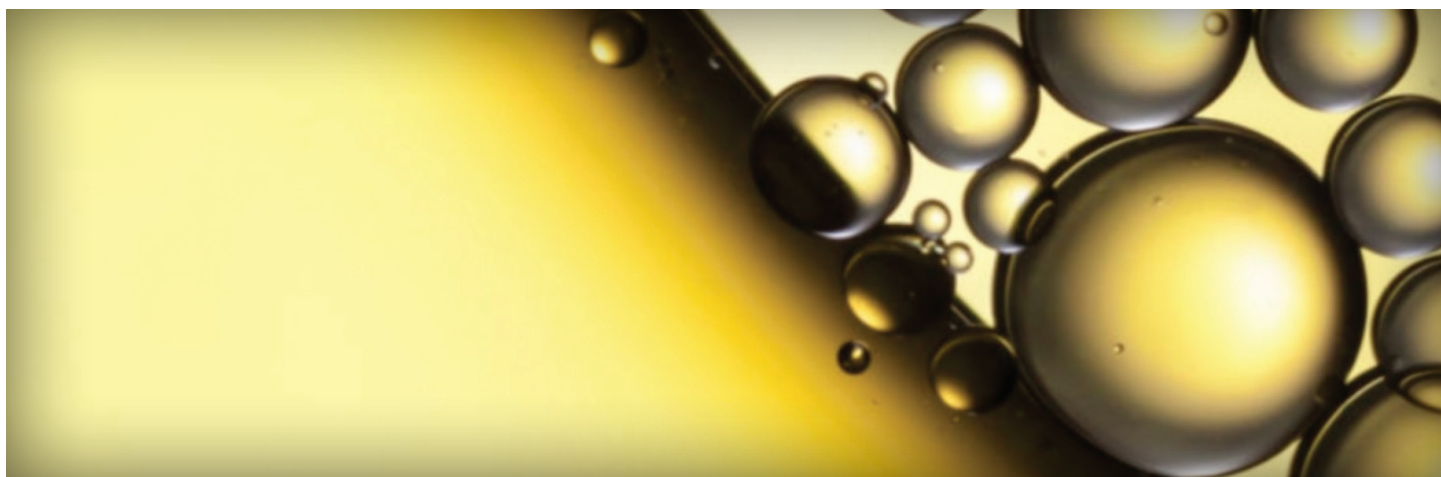


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GREASE & LUBRICANT ADDITIVES

We offer a portfolio of specialty raw materials & Ingredients ranging from lithium and molybdenum thickener technologies, polymers, sebacic acid and multi-functional additive packages, for the manufacturing high-performance of greases.

LITHIUM ADDITIVES

Lithium Carbonate

Lithium Carbonate technical, superfines and ultrafines grades are available in various particle sizes with a 99% Li₂CO₃ 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. The product of choice when occupational health and safety is in mind of the 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.

MOLYBDENUM ADDITIVES

Molybdenum Disulfide - MOLYTROL™

Molybdenum disulfide is an inorganic compound with the formula MoS₂. Its reactivity is low, rendering it resistant to dilute acids. In terms of its appearance and feel, molybdenum disulfide is similar to graphite and, like graphite, it is widely used as a solid lubricant. It is often incorporated as a component of blends and composites where low friction is sought.

Molybdenum Trioxide - MOLYTROL™

Molybdenum trioxide can be formulated with molybdenum disulfide to create a solid lubricating material consisting essentially of an intimate mixture of about 15 to 50 mole percent molybdenum trioxide to molybdenum disulfide. 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 and chemical composition of the MOLYTROL™ range provide lubricants with 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.

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 customized specifications depending on your needs.

Lithium Stearate

Lithium Stearate is classified as a lithium soap and is available as a soft white solid, often used as the main component of lithium grease. Lithium stearate is used in grease and lubricants because it has a strong thickening ability for mineral oil or synthetic oil, which improves the viscosity and stability of the grease.

GUMS

Welan Gum

Welan gum is used in grease and lubricants as a thickener, stabilizer, and anti-caking agent. It has excellent rheological properties, such as salt resistance, thermotolerance, and good pH stability. It is also an eco-friendly 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, as it has a high thermal stability and does not degrade easily.

SURFACTANTS

Benzoic Acid

Benzoic acid is a white, crystalline organic compound that is derived from benzoin resin or synthesized from toluene. It is used as a preferred acid in the production of aluminium complex greases, which are widely used in 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 does not need extra additives to give extreme pressure (EP) and anti-corrosion benefits, making it fit for food-grade applications.



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Bulk Chemicals and Specialty Performance Materials

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