



Mobil Centaur™ Moly Series

Calcium Sulfonate Grease

Product Description

The Mobil Centaur™ Moly Series of greases are premium quality greases formulated with advanced calcium sulfonate thickener technology. The calcium sulfonate thickener in the Mobil Centaur Moly products represents a significant advance in grease formulation technology. Unlike conventional soap-base thickeners (i.e. lithium, aluminum, and calcium soaps), the calcium sulfonate thickener does much more than simply impart consistency. It imparts excellent corrosion and water-resistance properties to the grease and has inherent extreme-pressure protection properties that enhance load-carrying ability. Further, the EP properties derived from the calcium thickener also have inherently better thermal stability than those from conventional Sulphur/Phosphorus EP additives.

Fortified with 3% molybdenum disulphide to complement a robust extreme-pressure additive system, the Mobil Centaur Moly Series of greases are particularly well suited to meet the demanding lubrication requirements of heavy-duty truck chassis, construction and mining equipment, and heavily load industrial bearings. The Mobil Centaur Moly Series also provides outstanding resistance against the effects of water washout, water spray-off and corrosion, and are available in NLGI 1 and 2 grades offering a range of pumpability and dispensing options.

Features and Potential Benefits

The Mobil Centaur Moly greases are members of the Mobil™ brand of lubricating products recognized for their high quality and reliability, as well as performance capabilities. This family of products is manufactured to the strictest quality standards. A key feature for this product family is its reputation for reliability and consistency, and its ability to handle tough applications. The Mobil Centaur Moly Series are formulated with state-of-the-art high-performance calcium sulfonate thickener technology and is formulated for heavy-duty truck, mining and construction applications as well as heavily loaded industrial bearings. The Mobil Centaur Moly greases offer the following potential benefits:

- Excellent extreme-pressure protection and load-carrying ability for equipment protection under heavy and shock loading
- Fortified with 3% molybdenum disulphide for retention of EP performance and equipment protection in severe sliding situations
- Outstanding corrosion and water resistance for highly reliable lubrication in hostile environments

Applications

The Mobil Centaur Moly Series of greases are highly recommended for heavily loaded applications or environments highly contaminated with water. Specific examples of such applications include:

- Heavy-duty trucks, including chassis, spring shackles, king pins, tie rods, u-joints, hinge and bucket pins and fifth wheels
- Mining and construction equipment
- Marine equipment
- Highly loaded industrial bearings

Typical Properties

Mobil Centaur Moly	1	2
NLGI Grade	1	2
Thickener Type	Calcium Sulfonate	Calcium Sulfonate
Color, Visual	Grey	Grey
Molybdenum DiSulfide, wt%, Calculated	3%	3%
Penetration, Worked, 25° C, ASTM D 217	325	265(min)
Dropping Point, °C, ASTM D 2265	288	280
Viscosity of Oil, ASTM D 445		
cSt @ 40° C	320	320
Timken OK Load, ASTM D 2509, lb	60	60
4-Ball Weld Test, ASTM D 2596, Weld Point, Kg	500	500
4-Ball Wear, ASTM D 2266, 40 kg, 1200 rpm, mm	0.50	0.38
Water Washout, ASTM D 1264 1 hr. @ 79° C, %	1.0	1.0
Water Spray resistance, ASTM D 4049, mass %	25	20

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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