



## Mobil Centaur™ Moly Series

Mobil Grease , United States

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 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

### Properties and Specifications

Property	1	2
Grade	NLGI 1	NLGI 2
Thickener Type	Calcium Sulfonate	Calcium Sulfonate
Color, Visual	Grey	Grey
Dropping Point, °C, ASTM D2265	295	308

Property	1	2
Four-Ball Extreme Pressure Test, Weld Load, kgf, ASTM D2596	500	500
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.5	0.5
Molybdenum Disulfide Content, wt %, CALCULATED	3	3
Penetration, 60X, 0.1 mm, ASTM D217	325	280
Timken OK Load, lb, ASTM D2509	60	60
Viscosity @ 100 C, Base Oil, mm2/s, ASTM D445	24.0	24.0
Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445	320	320
Viscosity Index, ASTM D2270	95	95
Water Sprayoff, Loss, %, ASTM D4049	25	20
Water Washout, Loss @ 79 C, wt%, ASTM D1264	1	1

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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