Mobil Centaur™ Moly Series

Mobil Grease , Canada

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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09-2021

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com
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