



## Mobil SHC Centaur™ 101 Moly

Mobil Grease , United States

Synthetic All Season Grease

### Product Description

The Mobil SHC Centaur™ 101 Moly is a synthetic all-weather grease that offers excellent lubrication performance over a very wide operating temperature range. This product combines synthetic base oils with a calcium sulfonate thickener and molybdenum disulfide to provide ultimate protection in mining and construction equipment.

The Mobil SHC Centaur 101 Moly offers excellent low temperature pumpability down to -30 C while also exhibiting excellent retention and bleed control at high temperatures.

Compared to conventional soap-base thickeners (i.e. lithium, aluminum, calcium soaps), the calcium sulfonate thickener used in the Mobil SHC Centaur Moly 101 excels in water saturated environments, providing longer re-lubrication intervals. The grease maintains consistency, wear protection and corrosion protection, even with substantial water contamination.

Fortified with 5% molybdenum disulphide to complement a robust extreme-pressure additive system, Mobil SHC Centaur 101 Moly is particularly well suited to meet the demanding lubrication requirements of heavy-duty truck chassis, construction and mining equipment as well as heavily loaded industrial bearings.

### Features and Benefits

- Operating temperatures ranging from -40° C to 150° C may allow for year round use<sup>1</sup>.
- Extraordinary high and low temperature performance compared to conventional greases, provides protection at high temperatures and low torque, easy start-up at low temperatures.
- Balance of high consistency and low temperature pumpability extends the operating temperature range and offers ability to potentially reduce or eliminate seasonal changes<sup>1</sup>.
- Excellent pumpability along with with excellent wear protection properties make it suitable for central lubrication systems.
- Excellent wear protection under high loads.
- Superb rust and corrosion protection.

<sup>1</sup>Depending on climate and application.

### Applications

Heavy duty chassis lube for mobile equipment found in agriculture, mining, construction, forestry, and on-highway.

General purpose grease in many industrial applications, indoors and outside, in both cold and high temperature environments.

### Properties and Specifications

Property	
Grade	NLGI 1

Property	
Thickener Type	Grease - Calcium Sulphonate
Corrosion Preventive Properties, Rating, ASTM D1743	Pass
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.45
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048	1A
Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596	620
Viscosity Index, ASTM D2270	175
Color, Visual	Gray-Black
Timken OK Load, lb, ASTM D2509	55
Penetration, 60X, 0.1 mm, ASTM D217	325
Flow Pressure @ -50 C, mbar, DIN 51805	1400
Oil Separation, 0.25 psi, 24 h @ 25 C, mass%, ASTM D1742	0.2
US Steel Mobility @ -30 F, g/min, AMS 1390	3
Viscosity @ 40 C, Base Oil, mm <sup>2</sup> /s, ASTM D445	100
Oil Separation, 30 h @ 100 C, mass%, ASTM D6184	3
Dropping Point, °C, ASTM D2265	305
Water Washout, Loss @ 79 C, wt%, ASTM D1264	10
Viscosity @ 100 C, Base Oil, mm <sup>2</sup> /s, ASTM D445	16.3

### 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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