



# Mobil SHC Centaur™ 101 Moly

Mobil Grease , Canada  
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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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](http://www.exxonmobil.com)

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