

LSA GREASE EXTREME MOLY5

THICKENER	NLGI	APPLICATION TEMP RANGE	BASE OIL VISCOSITY	TACKINESS ADDITIVE	EXTREME PRESSURE (4-BALL EP WELD LOAD)	WATER RESISTANCE ON A SCALE OF 3	SOLID LUBRICANTS (incl. MoS ₂)
CALCIUM SULPHONATE COMPLEX	1.5	-10° C to 260° C	460 cSt @ 40° C	YES	600 - 800KG	3	>5%

GREASE EXTREME MOLY5 is the highest performance extreme duty grease engineered to protect mining and earth moving mobile and stationary plant, operating under the most extreme and hostile conditions.

Key to the performance of **GREASE EXTREME MOLY5** is the Calcium Sulphonate Complex thickener technology, which provides inherent extreme pressure properties not achievable with conventional Lithium Complex thickeners popularly used in the mining industry.

The Calcium Sulphonate Complex thickener technology imparts superior resistance to water washout and corrosion protection (in salt water corrosion) compared to conventional grease chemistries, with up to 50% improvement.

GREASE EXTREME MOLY5 meets and exceeds Caterpillar's key grease requirements for all machines operating at maximum load factors, under extreme load conditions, frequent oscillations and subject to severe shock loading:

Exceeds the guideline of 5% solid lubricants, which imparts added protection in conditions susceptible to severe impact.

Exceeds the extreme pressure performance 4-Ball EP Weld Point requirement of 620kg (ASTM D2596)

Water washout resistance / roll stability, conforms to the corrosion resistance requirements of ASTM B117.

APPLICATION

GREASE EXTREME MOLY5 is applied to provide wear resistance under extreme ambient conditions requiring high load carrying ability, resistance to galling and fretting corrosion as well as resistance to water washout and salt water corrosion.

GREASE EXTREME MOLY5 can be used with confidence in heavily loaded pin joints, in slow/medium speed heavily loaded bearings and high impact (shock load) applications encountered in mobile plant such as track type tractors, backhoe loaders, excavators and off-highway trucks. The median particle size of the lubricating solids used in the grease formulation is ~3µm, rendering it suitable for use in off-highway wheel bearing applications, joints and other tight clearance moving components. The product is suited to severe duty applications in industries such as drilling, steel & metal processing, paper, agriculture, marine etc.

GREASE EXTREME MOLY5 is formulated with a tackiness enhancer to allow the grease to adhere to vertical surfaces, or surfaces in motion where the grease resists "fling-off". Grease adhesion is a key requirement in applications such as swing gears in excavators; where it needs to remain in place to avoid lack of lubrication.

Product Data Sheet



KEY FEATURES & BENEFITS

Calcium Sulphonate Complex Technology	Higher Drop Point	Suitable for higher temperature applications
	Improved Mechanical Stability	Grease does not slump (drip out) under oscillating loads
	Inherent EP properties in the chemistry of the soap base	Prevents wear through superior Extreme Pressure boundary lubrication
	Inherent water resistance (improved roll stability)	Prevents grease breakdown even under the presence of water, resists water wash-out
	Inherent corrosion resistance and resistance to acidic attack	Prevents rust and corrosion under water ingress conditions, resists salt water corrosion attack
	5% solids (MoS ₂)	Ultimate protection against galling and shock loading
Additives	Tackiness Enhancer	Forms adhesive grease film on vertical surfaces to ensure lubrication under all conditions

PRODUCT TEST DATA

Property	Test Method	Value
NLGI Grade	ASTM D217	1.5
Colour	Visual	Grey/Black
Thickener	-	Calcium Sulphonate
Lubricating Solids, %	-	>5%
Base Oil Viscosity	ASTM D445	460 cSt at 40°C
Drop Point	ASTM D2265	330°C
Worked Penetration	ASTM D217	300 mm
% Oil Separation, at 25°C, 24h	ASTM D1742	0.60%
4-Ball EP Weld Load	ASTM D2783	600 - 800 kg
4-Ball Wear Scar Diam.	ASTM D2266	0.45 mm
Timken OK Load	ASTM D2509	30 kg
% Water Washout	ASTM D1264	1.35% loss
Rust Test, rating	ASTM D1743	Pass

Package Sizes:

- Bulk System**
- 180kg Drums**
- 20kg Pails**
- 450g cartridges**

The information contained herein is accurate at the time of this review. However specifications change from time to time. Ensure specifications meet equipment manufacture requirements.