

MOL-CALPLEX

Product Description:

MOL-CALPLEX is calcium sulfonate complex grease especially developed for the steel industry. It is formulated to be used for high temperature lubrication of plain and rolling bearings exposed to heavy loads in the presence of water. Due to its unique thickener's nature, it shows excellent anti-rust properties and outstanding resistance against water washout.

Features:

- Superior anti-rust and anti-wear properties.
- Extreme water washout performance.
- Excellent mechanical stability even in presence of plenty of water.
- Very high dropping point (>300°C).
- Exceptional load carrying properties (four ball welding load >500 kg).
- Very good adhesiveness to metal surfaces.
- Easy pump ability by centralized automatic lubrication systems.
- Shows sealing effect under wet and muddy environment.
- Contributes to longer bearing life.

Applications:

MOL-CALPLEX is specifically designed for use in the steel, iron and metallurgical as well as maritime industries. It is particular suitable for use in bearings under heavy loads & vibrations with medium & low rotation speed, Exposed to high temperature and in contact with water requiring anti-corrosive action. Its application temperature range is from -20°C to +200°C.

Storage and Packing Conditions:

- Should be stored sealed under normal storage conditions. Shelf life in original package and at room temperature is 3 years.
- Available in 16 KG Pails and 180 KG Drums.

Human Health and Work Safety:

- Normal safety precautions (gloves and safety goggles) Should be employed
- Avoid eye and prolonged skin contact.
- Wash thoroughly after handling material.
- Don't discharge used oil in drains, dispose to an authorized used oil collection poin.
- For more information, please see the Material Safety Data Sheet (MSDS).

Physical and Chemical Conditions:

MOL-CALPLEX	Method	1	2
Appearance	Visual	Brown, homogeneous	
Soap Type	-	Calcium Sulfonate Complex	
Base Oil Viscosity @ 40°C	ASTM D 445	460	
Worked Penetration (1/10 mm)	ASTM D 217	295 - 315	265 - 295
NLGI No	-	1.5	2
Dropping Point, °C	ASTM D 2265	>300	>300
Bearing Rust Test @ 52°C	ASTM D 1743	Passes	
Copper Corrosion @ 24h & 100°C	ASTM D 130	Max. 1b	
Oil Separation @ 30h & 150°C, %	ASTM D 6148	<2.5	
Water Spray @ 5m & 38°C & 40 psi, %	ASTM D 4049	25	15
Water Washout @ 1h & 79°C, %	ASTM D 1264	<0.5	
Four Ball Welding Load, kg	ASTM D 2596	>500	
Four Ball Scar Diameter, mm	ASTM D 2596	0.4	

*Meets the requirements of the OEM manufacturer.

*The stated values can fluctuate within the normal range.

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