

MOL Helios 2

high-temperature lubricating grease



MOL Helios 2 is a heat resistant lubricating grease produced with bentonite thickener. Its lubricating fluid is a mixture of highly refined mineral oil and synthetic oil, having beneficial evaporation and oxidation stability characteristics and good cold flow properties. Its additives, that reduce wear, inhibit oxidation and corrosion, ensure excellent application properties to the product. Regular regreasing is necessary in high temperature applications (>150°C)! Mixing with lubricating greases prepared with other thickeners must be avoided! It is a moderately soft, smooth, dark purple coloured lubricating grease. The temperature range of application is between -20 °C and +200 °C.

Application



High temperature applications

Bearings exposed to dynamic loads

Bearing systems of tunnel kilns

Bearings of flue gas extractor fans

Features and benefits

Exceptional thermal and oxidation stability

No hardening of lubricating grease at high temperatures and minimum oil separation
Cycle time of re-lubrication can be increased significantly
Increased operational safety, availability and lifetime of equipment

Improved wear protection

Wear of contacting surfaces is significantly reduced
Reliable equipment protection and long machine lifetime
Improved operational safety and high level of availability

Good mechanical and storage stability

Retains stable structure under load, so no softening of lubricating grease and no running off the lubrication point
Long-term storage is possible without oil separation or lubricating grease hardening

Good load-carrying ability

Forms a continuous lubricating film with a high load-carrying ability

Excellent cold flow properties

Reliable operation even at low temperatures

Excellent corrosion protection

Long-term protection against surface damage, even in the presence of moisture

Excellent yellow metal compatibility

Prevents premature deterioration of non-ferrous metal parts

Specifications and approvals

NLGI grade: NLGI 2
DIN 51502: KP2S-20
ISO 6743-9: L-XBGE B 2

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Properties

Properties	Typical values
Appearance	dark purple, homogeneous
Base oil viscosity at 40 °C [mm ² /s]	280
Dropping point [°C]	above 300
Penetration after 60 strokes at 25 °C [0,1 mm]	280
Four ball test, weld load [N]	2200
Timken OK load [kg]	18
Oxidation stability at 100 h / 100 °C pressure drop [kPa]	30
Corrosion at 100 °C/ 24 h (steel)	pass
Copper corrosion (100 °C, 24 h) [grade]	1
Static water resistance at 90 °C [grade]	1-90
Oil separation [mass %]	1,0

The characteristics in table are typical values of the product and do not constitute a specification.

Storage and handling instructions

The product does not contain any toxic materials. During storage and handling the product usual health safety regulations for mineral oil products should be observed. It should be stored at covered place, free of direct sunlight and moisture.

In the original container under the recommended storage conditions: 24 months

Recommended storage temperature: -5°C - +45°C

Ordering information

Custom Tariff Number 27101999

SAP code and packaging:

13006267	MOL Helios 2 X250G	250g plastic jar
13006269	MOL Helios 2 8KG	8 kg steel pail
13006268	MOL Helios 2 50KG	60 l steel drum
13006266	MOL Helios 2 180KG	213 l steel drum

Order booking:

Please contact your local distributor or sales partner for ordering details.