

MOL Helios 2M

high-temperature lubricating grease



MOL Helios 2 M is a heat resistant lubricating grease. Its lubricating fluid is a blend 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, and its EP additives ensure excellent application properties. It contains molybdenum disulphide and graphite as solid additives, which significantly increase the load allowed on lubricated components. A regular regreasing is necessary in high temperature applications (>150 °C)! Mixing with lubricating greases prepared with other thickeners must be avoided! It is moderately soft, black coloured lubricating grease. The temperature range of application is between -20 °C and +200 °C.

Application



- High temperature applications
- Low speed bearings exposed to dynamic loads
- Equipment subject to high risk of seizure
- Bearing systems of tunnel kilns
- Bearings of flue gas extractor fans

Features and benefits

High performance solid additive content	Solid additives increase the load-carrying properties at lubrication points, so the risk of seizure is reduced Effective wear protection even under shock loads and low speeds Reduces heat of friction, even in mixed lubrication conditions, so increases the service life of lubricating grease
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
Excellent load-carrying properties	Forms a continuous lubricating film that does not break even under heavy load and low speed conditions Contributes to increasing equipment lifetime
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
Improved cold flow properties	Reliable operation even at low temperatures
Good corrosion protection	Long-term protection of steel and non-ferrous metal parts

Specifications and approvals

NLGI grade: NLGI 2
DIN 51502: KPF2S-20
ISO 6743-9: L-XBGEB 2

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Properties

Properties	Typical values
Appearance	black, homogenous
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]	2600
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
Oil separation [mass %]	1,0
Molybdenum disulphide content [mass %]	2

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:

13006270 MOL Helios 2M 8KG

8 kg steel pail (for order only)

Order booking:

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