

LUKOIL® THERMOFLEX EP 2-180 HD

Multipurpose High-Temperature Complex Lithium Grease

DESCRIPTION

LUKOIL® THERMOFLEX EP 2-180 HD is a multipurpose high-temperature grease based on complex lithium soap, highly refined mineral oil blend with low evaporation and good stability to oxidation. The grease contains performance improving additive package and solid lubricants (graphite and molybdenum disulfide) for operation under boundary friction conditions.

LUKOIL® THERMOFLEX EP 2-180 HD grease has excellent tribological features and can operate under very heavy mechanical loads, including shock loads, can operate in frequent contact with water. Service temperature range is from -30 up to +160°C.

LUKOIL® THERMOFLEX EP 2-180 HD grease is black in color and has moderate soft consistency.



ADVANTAGES:

- Resistance to shock and vibrational loads
- Excellent high-temperature properties
- Excellent load carrying capacity at low temperatures
- High water resistance
- Excellent adhesion
- Long-term service life
- Very good anti-corrosion properties

COMPOSITION:

- Highly refined mineral oil
- Complex lithium soap
- Anti-wear (AW) / extreme pressure (EP), anti-corrosion, anti-oxidation, additives
- Solid lubricants (graphite and molybdenum disulfide)

APPLICATION IN UNITS:

- Heavy-loaded rolling bearings
- Sliding bearings
- Centralized lubrication systems

APPLICATION EXAMPLES:

- Used in heavily-loaded bearings of industrial equipment subject to extreme and shock loads and high humidity conditions
- Operating equipment of the mining, quarry, and lumbering machinery
- Bearings of the rolling mill driveshaft crossbars

This product is manufactured according to STO 65561488-015-2014

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TYPICAL PROPERTIES

DIN 51502	Marking according to DIN 51502		KPF2P-30
ISO 6743-9	Marking according to ISO 6743-9		L-XCEFB 2
	Color		Black
	Service temperature range	°C	-30 to +160
DIN 51818	NLGI consistency class		2
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10	265-295
DIN 51562	Base oil viscosity at 40°C	mm ² /s	180
DIN 51562	Base oil viscosity at 100°C	mm ² /s	16
ISO 2176	Drop point	°C	230
ASTM D2596	Weld load (4-ball machine test) at 25°C	N	4500
ASTM D2266	Wear scar (4-ball machine test)	mm	0.5
DIN 51802	Corrosion degree (rolling bearings, distilled water)		0-0
ASTM D4048	Corrosion degree (copper strip)		≤ 1b

*DIN: Deutsche Industrie Norm.

ISO: International Standardization Organization.

ASTM: American Society for Testing and Materials.

HOW TO USE

This grease can be applied manually with brush or spatula, as well as through individual lubrication system at the temperatures down to -30°C.

USABLE LIFE AND STORAGE

When stored in the original unopened containers in a dry place, this product has a shelf life of at least 36 months from the date of production.

HANDLING PRECAUTIONS

This product doesn't contain any toxic ingredients. During storage, transportation and application of this product, the safety rules for handling mineral lubricating materials and the environment protection regulations must be observed.

For further information on how to use LUKOIL® products, please refer to the product MSDS.

TECHNICAL SUPPORT

For correct selection of lubricating materials to meet your needs, for more detailed information on the products, as well as if you have any other questions, we recommend you to contact our technical support service specialists by e-mail: grease.support@lukoil.com