

# LUKOIL THERMOFLEX EP 2-180 HD

Multipurpose high-temperature complex lithium grease with molybdenum disulfide

## 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 molybdenum disulfide for operation under boundary friction conditions.

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



### ADVANTAGES:

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

### COMPOSITION:

- Highly refined mineral oil blend
- Complex lithium soap
- Additives package: anti-corrosion, anti-oxidation, anti-wear (AW) / extreme pressure (EP) additives
- Molybdenum disulfide

### APPLICATION IN UNITS:

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

### APPLICATION EXAMPLES:

- Heavy-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

LUKOIL® THERMOFLEX EP 2-180 HD. Edition 08/23 replaces edition 12/21

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

**LUKOIL® THERMOFLEX EP 2-180 HD TYPICAL PROPERTIES**

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KPF2P-30
ISO 6743-9	Marking according to ISO 6743-9		L-XCEHB 2
	Color		Black
	Service temperature range	°C	-30 to +160
DIN 51818	NLGI grade		2
ISO 2137	Worked penetration (60 strokes)	mm/10	265-295
DIN 51562	Base oil viscosity @ 40 °C	mm <sup>2</sup> /s	180
DIN 51562	Base oil viscosity @ 100 °C	mm <sup>2</sup> /s	16
ISO 2176	Dropping point	°C	260
ASTM D2596	Four Ball Weld Load @ 25 °C	N kg	4635 473
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.5
DIN 51802	Corrosion protection (SKF-Emcor, distilled water)		0-0
ASTM D4048	Copper corrosion		1a

**HOW TO USE**

This grease can be applied manually with a brush or spatula, as well as through centralized lubrication system.

**USABLE LIFE AND STORAGE**

The guaranteed shelf life is 36 months from the date of manufacture in the manufacturer's container, subject to the conditions of transportation and storage.

**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 the proper lubricating materials to meet your needs, and to get 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](mailto:grease.support@lukoil.com)

LUKOIL® THERMOFLEX EP 2-180 HD. Edition 08/23 replaces edition 12/21

Product technical properties are typical and can vary in strong limits.

Due to research and development of science and technology technical properties of product indicated in this Technical Data Sheet can be changed without notification.