

# LUKOIL THERMOFLEX EP 1-1500 HD

Grease for high-loaded low-speed bearings

## DESCRIPTION

LUKOIL® THERMOFLEX EP 1-1500 HD is intended for extremely heavy-duty operation conditions and is based on high-viscosity oil (ISO VG 1500), complex lithium soap and especially efficient EP/AW additives. It contains molybdenum disulfide to provide operation under boundary friction conditions.

LUKOIL® THERMOFLEX EP 1-1500 HD is developed specifically for large slow-speed rolling bearings subject to high loads. It is generally used for spherical rolling bearings in ball mills and rotary grinders in cement industry.

LUKOIL® THERMOFLEX EP 1-1500 HD contains high-viscosity oil and solid lubricants in its formulation, aiming to provide excellent anti-wear and extreme pressure features for smooth movement without jerks, reliable protection of equipment under extremely high sliding loads and shock loads. Service temperature range is from –10 °C up to +150 °C.



### ADVANTAGES:

- Intended for extremely heavy-duty operation conditions
- Very good pumping ability
- Excellent extreme pressure properties
- Contains solid lubricants for boundary friction conditions
- Low coefficient of friction

### COMPOSITION:

- High-viscosity mineral oil
- Complex lithium soap
- Additive package
- Molybdenum disulfide

### APPLICATION IN UNITS:

- Extremely high-loaded slow-speed rolling bearings
- Sliding bearings
- Bushings, swivels

### APPLICATION EXAMPLES:

- Spherical rolling bearings of cement kiln support bearings and retaining rollers
- Sieving screen bearings
- Rolling press bearings
- Bearings of mills and rotary grinders

LUKOIL® THERMOFLEX EP 1-1500 HD. Edition 12/21 replaces edition 07/19

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

**LUKOIL® THERMOFLEX EP 1-1500 HD TYPICAL PROPERTIES**

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KPF1N-10
ISO 6743-9	Marking according to ISO 6743-9		L-XBDHB 1
	Color		Grey
	Service temperature range	°C	-10 to +150
DIN 51818	NLGI grade		1
ISO 2137	Worked penetration (60 strokes)	mm/10	310-340
DIN 51562	Base oil viscosity @ 40 °C	mm <sup>2</sup> /s	1500
DIN 51562	Base oil viscosity @ 100 °C	mm <sup>2</sup> /s	70
ISO 2176	Dropping point	°C	>200
DIN 51805	Flow pressure @ -10 °C	mbar	<1400
ASTM D2596	Four Ball Weld Load @ 25 °C	N kg	5204 531
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.5
DIN 51821	Speed factor	mm-r/min	100000
DIN 51802	Corrosion protection (SKF-Emcor, distilled water)		0-0
ASTM D2509-03	Timken OK load	kg	60

**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)

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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.