

LUKOIL THERMOFLEX EP 1-1500 HD

Grease for High-Loaded Low-Speed Bearings

DESCRIPTION

LUKOIL® THERMOFLEX EP 1-1500 HD Grease 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 graphite and molybdenum disulfide to provide operation under boundary friction conditions.

LUKOIL® THERMOFLEX EP 1-1500 HD Grease is designed specifically for large slow-speed rolling bearings subject to high loads. It is generally used for spherical roller bearings in roller mills and rotary grinders in cement industry and at basic materials production.

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.



ADVANTAGES:

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

COMPOSITION:

- Highly purified mineral oil
- Complex lithium soap
- Additive package
- Solid lubricants (graphite and molybdenum disulfide)

APPLICABLE IN UNITS:

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

APPLICATIONS:

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

LUKOIL THERMOFLEX EP 1-1500 HD. Edition 07/19 replaces edition 04/18

This product is manufactured according to STO 65561488-015-2015

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-XBDFB 1
	Color		Grey
	Service temperature range	°C	-10 to +150
DIN 51818	NLGI consistency class		1
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10	310-340
DIN 51562	Base oil viscosity at 40°C	mm ² /s	1500
DIN 51562	Base oil viscosity at 100°C	mm ² /s	70
ISO 2176	Drop point	°C	>200
DIN 51805	Flow pressure at -10°C	mBar	<1400
ASTM D2596	Weld load (4-ball machine test) at 25°C	N	5204
ASTM D2266	Wear scar (4-ball machine test)	mm	0.5
DIN 51821	Speed factor	mm*rpm	100000
DIN 51802	Corrosion degree (rolling bearings, distilled water)		0-0
ASTM D2509-03	Timken OK load	kg	60

*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 centralized lubrication system at the temperatures down to -10°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 the proper 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

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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.