

# LUKOIL THERMOFLEX EP 2-460

Specialty high-temperature complex lithium grease

## DESCRIPTION

LUKOIL® THERMOFLEX EP 2-460 is a specialty high-temperature grease based on complex lithium soap, highly refined high-viscosity mineral oil with low evaporation, good oxidation stability. It contains additive package improving performances.

LUKOIL® THERMOFLEX EP 2-460 has superior adhesion, good water resistance, excellent tribological features and very good pumping ability. Provides excellent lubrication under exposure to shock and vibration loads. Service temperature range is from –20 °C up to +160 °C.



### ADVANTAGES:

- Excellent load carrying capacity within a wide temperature range
- Resistance to shock loads and vibration loads
- High extreme pressure (EP) properties
- High water resistance
- Superior adhesion
- Very good anti-corrosion properties

### COMPOSITION:

- Highly refined high-viscosity mineral oil
- Complex lithium soap
- Additive package: anti-corrosion, anti-oxidation, anti-wear and extreme pressure (AW/EP)

### APPLICATION IN UNITS:

- Rolling bearings
- Sliding bearings
- Guideways
- Bushings, swivels, units where sealing effect of the lubricant is required to prevent dirt, dust and water from getting inside

### APPLICATION EXAMPLES:

- Inset lubricant in the rolling mill bearings in metallurgy operating at high temperatures, under shock loads and vibrations
- Bearings, guideways of mining and construction equipment, paper-making machines
- Bearings of sifters, jigger screens, clinker mills in cement industry

LUKOIL® THERMOFLEX EP 2-460. Edition 12/21 replaces edition 04/18

**This product is manufactured according to STO 65561488-013-2014**

**LUKOIL® THERMOFLEX EP 2-460 TYPICAL PROPERTIES**

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KP2P-20
ISO 6743-9	Marking according to ISO 6743-9		L-XCEEB 2
	Color		Blue to dark blue
	Service temperature range	°C	-20 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	460
DIN 51562	Base oil viscosity @ 100 °C	mm <sup>2</sup> /s	31
ISO 2176	Dropping point	°C	>260
ASTM D2596	Four Ball Weld Load @ 25 °C	N kg	3685 376
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.45
DIN 51802	Corrosion protection (SKF-Emcor, distilled water)		0-0
ASTM D4048	Copper corrosion		1a
ASTM D2509-03	Timken OK Load	kg	50
DIN 51807 b	Water washout	%	<5

**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.