

# LUKOIL POLYFLEX EP 1-160

Multipurpose Lithium Grease

## DESCRIPTION

LUKOIL® POLYFLEX EP 1-160 is a multipurpose grease, based on high-quality mineral base oil blend, thickened with lithium soap fortified with package of high-performance additives improving lubricant efficiency.

LUKOIL® POLYFLEX EP 1-160 has good tribological features and can operate within a wide temperature range from -30 up to +120°C, under varying loads, as well as in contact with water and in wet environment conditions.

LUKOIL® POLYFLEX EP 1-160 reduces friction and wear, especially on friction elements subject to high loads. The grease is formulated to provide good thermal stability and good structure stability during storage and use.

LUKOIL® POLYFLEX EP 1-160 Grease has soft consistency and smooth structure.



### ADVANTAGES:

- Excellent extreme pressure properties
- Excellent mechanical stability
- Low coefficient of friction
- Good water resistance
- Very good anti-corrosion properties
- Good pumping ability
- Extended service life

### COMPOSITION:

- High-purified mineral oil
- Specialty lithium soap
- EP, AW, anti-oxidation and anti-corrosion additives

### APPLICATION IN UNITS:

- Rolling and sliding bearings
- Guideways
- Centralized lubrication systems
- Lubrication of the components made of nonferrous metals
- Some gearbox types

### APPLICATION EXAMPLES:

- Rolling and sliding bearings of the industrial equipment, automotive and agricultural machinery
- Bearings of the air-blowers and other high-loaded units operating at the ordinary temperatures
- Centralized lubrication systems in the mining and construction machinery where NLGI 1 class lubricating material with good pumpability is needed.

LUKOIL POLYFLEX EP 1-160. Edition 04/18 replaces edition 10/16

This product is manufactured according to STO 65561488-011-2014

## **LUKOIL® POLYFLEX EP 1-160**

### **TYPICAL PROPERTIES**

Standard*	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KP1K-30
ISO 6743-9	Marking according to ISO 6743-9		L-XCCEB 1
	Color, appearance	Straw, brown, homogeneous	
	Service temperature range	°C	-30 to +120
DIN 51818	NLGI consistency class		1
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10	310-340
ISO 2137	Penetration change at 25°C after 10,000 cycles	mm/10	±11
DIN 51562	Base oil viscosity at 40°C	mm²/s	160
DIN 51562	Base oil viscosity at 100 °C	mm²/s	15
ISO 2176	Drop point	°C	>200
ASTM D2596	Weld load (4-ball machine test) at 25°C	N	2930
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)		1a

\*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 systems.

### **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, 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.