

# LUKOIL POLYFLEX EP 1-160 HD

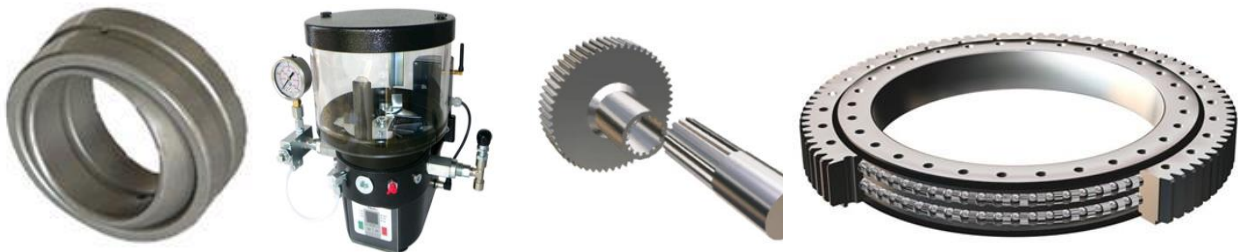
Multipurpose Lithium Grease with Solid Lubricants

LUKOIL® POLYFLEX EP 1-160 HD is an antifriction grease based on high-quality mineral base oil blend thickened with specialty lithium soap. The grease is fortified with package of high-performance additives improving performance and contains solid lubricants for operation under boundary friction conditions. Service temperature range is from -40 up to +120°C.

LUKOIL® POLYFLEX EP 1-160 HD grease contains specially selected additives in its formula, which provide excellent corrosion protection of lubricated components in wet environment conditions.

LUKOIL® POLYFLEX EP 1-160 HD grease due to solid lubricant content has excellent anti-wear and extreme pressure features, providing smooth movement without jerks, reliable protection of equipment in conditions of specific sliding load and shock load.

LUKOIL® POLYFLEX EP 1-160 HD Grease has very soft consistency and high resistance to thermal, structural, oxidative destruction.



## **ADVANTAGES:**

- Prevents seizures
- Excellent extreme pressure properties
- Extended service life
- Good anti-corrosion properties
- Good water resistance
- Good pumping ability
- Prevents stick-slip effect

## **COMPOSITION:**

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

## **APPLICATION IN UNITS:**

- Heavy-loaded sliding bearings
- Splined joints, studs, pivots, axes
- Medium-loaded gear drives
- Other sliding surfaces operating on low speeds and under high dynamic loads
- Centralized and individual lubrication systems

## **APPLICATION EXAMPLES:**

- Widely used on transport, in industry and agriculture, on mining and construction machinery
- Any equipment operating in harsh conditions and subject to risk of seizure
- Used in the centralized and individual lubrication systems where NLGI 1 class lubricant with solid lubricants is recommended

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

This product is manufactured according to STO 65561488-029-2015

## **LUKOIL® POLYFLEX EP 1-160 HD**

### **TYPICAL PROPERTIES**

| Standard*  | Property   | Unit               | Value         |
|------------|--|--------------------|---------------|
| DIN 51502  | Marking according to DIN 51502                       |                    | KPF1K-30      |
| ISO 6743-9 | Marking according to ISO 6743-9                      |                    | L-XCCEB 1     |
|            | Color, appearance                                    |                    | Charcoal-grey |
|            | 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                           | mm <sup>2</sup> /s | 160           |
| DIN 51562  | Base oil viscosity at 100 °C                         | mm <sup>2</sup> /s | 15            |
| ISO 2176   | Температура каплепадения                             | °C                 | >190          |
| ASTM D2596 | Weld load (4-ball machine test) at 25°C              | N                  | 3479          |
| 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, 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](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.