

LUKOIL® POLYFLEX EP 2-160 HD

Multipurpose Lithium Grease with Solid Lubricants

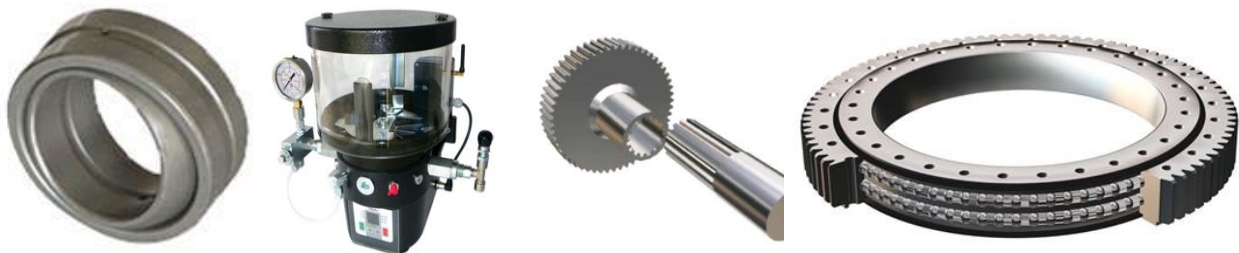
DESCRIPTION

LUKOIL® POLYFLEX EP 2-160 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 2-160 HD grease contains specially selected additives in its formula, which provide excellent corrosion protection of lubricated components in wet environment conditions.

LUKOIL® POLYFLEX EP 2-160 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 2-160 HD Grease has soft consistency and high resistance to thermal, structural, and oxidative destruction.



ADVANTAGES:

- Operates under boundary friction conditions
- Prevents sticking and seizure
- Excellent extreme pressure properties
- Extended service life
- Good anti-corrosion properties
- Good water resistance
- Prevents stick-slip effect

APPLICATION IN UNITS:

- Heavy-loaded sliding bearings
- Splined joints, studs, pivots, pins, axes
- Medium-loaded gear drives
- Various sliding surfaces operating on low speeds and under high dynamic loads

COMPOSITION:

- Highly purified mineral oil
- Specialty lithium soap
- EP, AW, anti-oxidation, anti-corrosion additives
- Solid lubricants (molybdenum disulfide and graphite)

APPLICATION EXAMPLES:

- Widely used on transport, in industry and agriculture, on mining and construction machinery
- Various mechanisms operating under harsh conditions and subject to risk of seizure
- Allowed to be used in the individual lubrication systems where use of NLGI #2 class lubricant with solid lubricants is recommended

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

LUKOIL® POLYFLEX EP 2-160 HD

TYPICAL PROPERTIES

| Standard* | Property | Unit | Value |
|------------|--|--------------------|---------------|
| DIN 51502 | Marking according to DIN 51502 | | KPF2K-30 |
| ISO 6743-9 | Marking according to ISO 6743-9 | | L-XCCEB 2 |
| | Color, appearance | | Charcoal-grey |
| | Service temperature range | °C | -30 to +120 |
| DIN 51818 | NLGI consistency class | | 2 |
| ISO 2137 | Worked penetration (mixed, 60 double strokes) | mm/10 | 265–295 |
| ISO 2137 | Penetration change at 25°C after 10,000 cycles | % | ±15 |
| DIN 51562 | Base oil viscosity at 40°C | mm ² /s | 160 |
| DIN 51562 | Base oil viscosity at 100°C | mm ² /s | 15 |
| ISO 2176 | Drop point | °C | >185 |
| ASTM D2596 | Weld load (4-ball machine test) at 25°C | N | 3300 |
| 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) | | ≤ 1b |

*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 system at the temperatures down to -30°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 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