

LUKOIL® POLYFLEX EP 1-160 HD

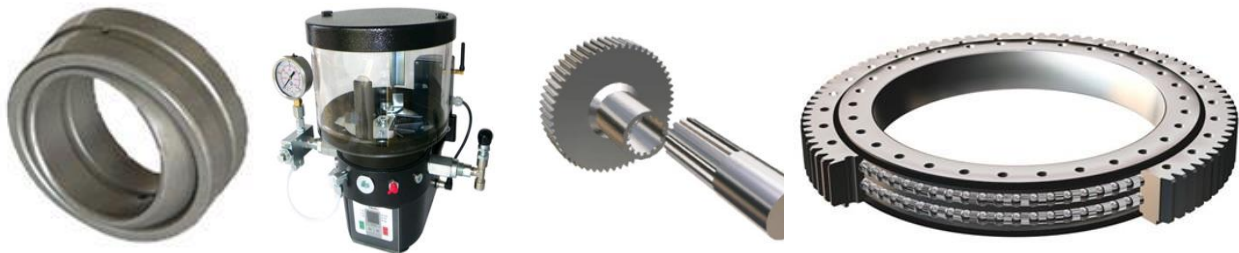
Multipurpose Lithium Grease with Solid Lubricants

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 (molybdenum disulfide and graphite)

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

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

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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	±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	Температура каплепадения	°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