

LUKOIL POLYFLEX EP

Multipurpose water-resistant antifriction grease

PRODUCT DESCRIPTION

LUKOIL POLYFLEX EP is an antifriction universal multipurpose grease designed for use in friction units of modern vehicles, industrial, construction and marine equipment operating under medium and high loads. The grease can operate within the temperature range of minus 30°C to plus 120°C in high humidity and acidity conditions.

Depending on the NLGI class, the following different grades of the grease are produced:

LUKOIL POLYFLEX EP 00-160;
LUKOIL POLYFLEX EP 0-160;
LUKOIL POLYFLEX EP 1-160;
LUKOIL POLYFLEX EP 2-160;
LUKOIL POLYFLEX EP 3-160.

The **LUKOIL POLYFLEX EP** grease is obtained by thickening a mixture of high-quality petroleum oils with 12-hydroxystearic acid lithium soap with an additive package enhancing its anti-wear, adhesive, anticorrosive and extreme pressure properties. It is produced at one of the most up-to-date industrial facilities in the CIS, using high-quality raw materials.

APPLICATION

The **LUKOIL POLYFLEX EP** grease is recommended for use as a multipurpose grease for industrial, automotive, construction and marine equipment. It is recommended for all kinds of equipment subjected to high specific and shock loads. It can be used for sliding and rolling bearings, gear systems and couplings. The grease ensures excellent protection from corrosion, water wash-out resistance, which makes it suitable for such kinds of equipment as rolling

mills, tunnel construction and mineral mining equipment, underground machinery and equipment, crushing and ore beneficiation plants, where water and moisture are present in abundance. It is recommended for use in bearing units of chassis components, electrical engines, couplings, power cylinders, fans and etc.

BENEFITS

- Excellent protection of the greased parts from corrosion in high humidity, including acid atmosphere;
- High resistance to thermal, structural and acidizing destruction during operation at high temperatures;
- Excellent low-temperature characteristics ensuring excellent pumping ability at low temperatures;
- Due to the use of a low-viscosity base oil with a high viscosity index and an additive package, it ensures lower power consumption by equipment;
- Ensures a long service life of bearings and lower equipment maintenance costs;
- High anti-wear, anticorrosive and extreme pressure properties, ensuring reliable protection of the equipment even under high sliding and shock loads;
- Universal applicability of the grease allows for reducing the range of greases to be used and the stock levels;
- Free of lead or other heavy metal.
- Available toxicology data indicate that the grease has no adverse health effects, if handled and used properly;
- No special precautions are required, except for rules of personal hygiene, including the washing of the contaminated clothes and the affected skin areas with soap.

The product is manufactured as per STO 65561488-011-2014

STANDARD CHARACTERISTICS

PROPERTY	EP 00-160	EP 0-160	EP 1-160	EP 2-160	EP 3-160
NLGI consistency	00	0	1	2	3
DIN 51502 designation	KP00K-30	KP0K-30	KP1K-2030	KP2K-30	KP3K-30
Color	From light yellow to brown				
Type of soap	Li				
Type of base oil	mineral				
Operating temperature range, °C	-30 ... + 120				
Structure	smooth				
Kinematic viscosity of base oil at 40°C, mm ² /s	160				
Dropping point, °C, or more	150	170	190	190	190
Penetration at 25 °C after stirring, 0.1 mm	400-430	355-385	310-340	265-295	220-250
Four-ball tribological properties:					
• Weld load, N, or more	2800				
• Wear scar diameter, mm, or less	0.5				
SKF Emcor corrosion protection test	0-0				

The standard product characteristics are average values and do not constitute the manufacturer's specification. They can be subject to change in accordance with the requirements of INTESMO, LLC. Please contact the technical support team for any question related to the application and replacement of grease products manufactured by INTESMO, LLC.