

LUKOIL THERMOFLEX EP

High-temperature multipurpose grease

PRODUCT DESCRIPTION

The **LUKOIL THERMOFLEX EP 00, 0, 1, 2, 3 – 180** series greases are antifriction universal multipurpose high-temperature greases designed for use in friction units of loaded industrial equipment, modern vehicles, industrial, construction and marine equipment operating under medium and high loads. The grease can operate within the temperature range of minus 35°C to plus 160°C in high humidity and acidity conditions.

The **LUKOIL THERMOFLEX EP** series greases are obtained by thickening a mixture of high-quality petroleum oils with lithium complex soap with an additive package enhancing its anti-wear, adhesive, depressant, anticorrosive and extreme pressure properties. It is produced at one of the most up-to-date industrial facilities in Russia, using high-quality raw materials.

APPLICATION

The **LUKOIL THERMOFLEX EP** greases are recommended for use as multipurpose greases for industrial, automotive, construction and marine equipment. They are recommended for all kinds of equipment subjected to high specific or shock loads. They 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, marine equipment, 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, crushers, conveyors 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.
- It ensures a long service life of bearings and lower equipment repair and maintenance costs.
- It has high anti-wear, anticorrosive and extreme pressure properties, ensuring reliable protection of the equipment even under high sliding and shock loads.
- Universal applicability 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 washing the contaminated clothes and affected skin areas with soap.

The product is manufactured as per STO 6551488-013-2014

STANDARD CHARACTERISTICS

PROPERTY	EP 00-180	EP 0-180	EP 1-180	EP 2-180	EP 3-180
NLGI consistency	00	0	1	2	3
DIN 51502 designation	KP00P-35	KP0P-35	KP1P-30	KP2P-30	KP3P-30
Operating temperature range, °C	-35...+160	-35...+160	-30...+160	-30...+160	-30...+160
Appearance	Homogeneous paste of blue to dark blue color				
Dropping point, °C, or more	–	–	220	240	240
Penetration at 25 °C, 0.1 mm, within	400–430	355–385	310–340	265–295	220–250
Effective viscosity at 30 °C and average gradient of strain rate of 10 sec ⁻¹ , Pa·s, or less	1200	1500	2000	2500	3500

Colloidal stability, %, or less	40	25	18	15	10
Four-ball tribological properties:					
• Weld load, N, or more			3283		
• Wear scar diameter, mm, or less			0.5		

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.