

# LUKOIL® STEELFLEX 0-240, 1-240, 2-240

Specialty Complex Calcium Greases for Metallurgy

## DESCRIPTION

Greases of the LUKOIL® STEELFLEX 240 series are specially designed high-temperature greases for centralized lubrication systems of metallurgical equipment, based on selected high viscosity mineral oils thickened with complex calcium soap and fortified with additive package providing high performance.

LUKOIL® STEELFLEX 240 greases are designed to lubricate units and mechanisms operating under high specific loads, long-term exposure to ambient temperatures up to +160°C in conditions of high humidity or permanent water contact.

LUKOIL® STEELFLEX 240 greases have high tribological features, reduce friction and wear, and are easy to be pumped through the centralized lubrication systems (NLGI 0, 1). The greases are formulated to provide high thermal stability and high mechanical structure stability during storage and operation.



<p><b>ADVANTAGES:</b></p> <ul style="list-style-type: none"> <li>• Excellent extreme pressure properties</li> <li>• Excellent mechanical stability</li> <li>• Excellent pumping ability</li> <li>• Low coefficient of friction</li> <li>• Very good anti-corrosion properties</li> <li>• Good water resistance</li> <li>• Extended service life</li> </ul>	<p><b>COMPOSITION:</b></p> <ul style="list-style-type: none"> <li>• Selected mineral oils</li> <li>• Specialty calcium soap</li> <li>• AW, anti-oxidation and anti-corrosion additives</li> </ul>
<p><b>APPLICATION IN UNITS:</b></p> <ul style="list-style-type: none"> <li>• Centralized lubrication systems</li> <li>• Rolling and sliding bearings</li> <li>• Guideways</li> <li>• Lubrication of the components made of nonferrous metals</li> <li>• Some gearbox types</li> </ul>	<p><b>APPLICATION EXAMPLES:</b></p> <ul style="list-style-type: none"> <li>• Bearings of rolling mills operating at high temperatures and in permanent contact with water</li> <li>• Sinter trolley bearings</li> <li>• Casting machines bearings</li> </ul>

LUKOIL STEELFLEX 0-240; 1-240; 2-240. Edition 05/17

**This product is manufactured according to STO 65561488-059-2016**

## **LUKOIL® STEELFLEX 0-240, 1-240, 2-240**

### **TYPICAL PROPERTIES**

Standard*	Property	Unit	Value		
			K0P-30	K1P-30	K2P-30
DIN 51502	Marking according to DIN 51502		K0P-30	K1P-30	K2P-30
ISO 6743-9	Marking according to ISO 6743-9		L-XCBEA 0	L-XCBEA 1	L-XCBEA 2
	Color, appearance		Straw, brown, homogeneous		
	Service temperature range	°C	-20 to +160	-20 to +160	-20 to +160
DIN 51818	NLGI consistency class		0	1	2
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10	355-385	310-340	268-295
DIN 51562	Base oil viscosity at 40°C	mm <sup>2</sup> /s	240	240	240
DIN 51562	Base oil viscosity at 100°C	mm <sup>2</sup> /s	20	20	20
ISO 2176	Drop point	°C	> 250	> 250	> 250
DIN 51817	Oil separation (18 h, 40 °C)	%	< 5	< 4	< 4
DIN 51805	Flow pressure at -20°C	mBar	< 1100	< 1100	< 1100
DIN 51 821-2	Bearing lifetime SKF-ROF (load 1500 H, 6000 rpm, 160 °C)	h	> 200	> 200	> 200
ASTM D2596	Weld load (4-ball machine test) at 25°C	N	2195	2195	2195
ASTM D2266	Wear scar (4-ball machine test)	mm	0.4	0.4	0.4
DIN 51802	Corrosion degree (rolling bearings, distilled water)		0-0	0-0	0-0
ASTM D4048	Corrosion degree (copper strip)		1a	1a	1a
DIN 51807 b	Water wash-out of the bearing	%	< 3	< 3	< 3

\*DIN: Deutsche Industrie Norm

ISO: International Standardization Organization

ASTM: American Society for Testing and Materials.

### **HOW TO USE**

These greases 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)

LUKOIL STEELFLEX 0-240; 1-240; 2-240. Edition 05/17

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.