

LUKOIL STEELFLEX 1-240

Specialty complex calcium grease for metallurgy

DESCRIPTION

LUKOIL® STEELFLEX 1-240 is a specially developed high-temperature grease for centralized lubrication systems of metallurgical equipment based on high-quality mineral oils thickened with complex calcium soap and fortified with additive package providing high performance.

LUKOIL® STEELFLEX 1-240 is developed to lubricate units and mechanisms operating under high loads, prolonged exposure to ambient temperatures up to +160 °C in conditions of high humidity or permanent water contact.

LUKOIL® STEELFLEX 1-240 has high tribological features, reduce friction and wear, and it is easy to pump grease through the centralized lubrication systems. The grease is formulated to provide high thermal and mechanical structure stability during storage and operation.



<p>ADVANTAGES:</p> <ul style="list-style-type: none"> • High water resistance • Superior thermal stability • High extreme pressure (EP) properties • Excellent mechanical stability • Good pumping ability • Low coefficient of friction • Very good anti-corrosion properties • Extended service life 	<p>COMPOSITION:</p> <ul style="list-style-type: none"> • Highly purified mineral oils • Complex calcium soap • AW, EP, anti-oxidation and anti-corrosion additives
<p>APPLICATION IN UNITS:</p> <ul style="list-style-type: none"> • Centralized lubrication systems • Rolling and sliding bearings • Guideways • Friction units made of nonferrous metals • Some gearbox types 	<p>APPLICATION EXAMPLES:</p> <ul style="list-style-type: none"> • Bearings of rolling mills operating at high temperatures and in permanent contact with water • Centralized lubrication systems metallurgical equipment where use of NLGI grade 1 lubricating material with good pumping ability and water resistance of grease is required

LUKOIL® STEELFLEX 1-240. Edition 12/21 replaces edition 09/20

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

LUKOIL® STEELFLEX 1-240 TYPICAL PROPERTIES

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KP1P-20
ISO 6743-9	Marking according to ISO 6743-9		L-XBEEB 1
	Service temperature range	°C	-20 to +160
DIN 51818	NLGI grade		1
ISO 2137	Worked penetration (60 strokes)	mm/10	310–340
DIN 51562	Base oil viscosity @ 40°C	mm ² /s	240
DIN 51562	Base oil viscosity @ 100 °C	mm ² /s	20
ISO 2176	Dropping point	°C	>280
ASTM D2596	Four Ball Weld Load @ 25 °C	N kg	2323 237
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.4
DIN 51802	Corrosion protection (SKF-Emcor, distilled water)		0-0
ASTM D4048	Copper corrosion		1a
DIN 51817	Oil separation (18 h, @ 40 °C)	%	<4
DIN 51805	Flow pressure @ -20 °C	mbar	<1100
DIN 51821-2	Bearing lifetime SKF-ROF (load 1500 N, 6000 rpm, 160 °C)	h	>200
DIN 51807 b	Water washout	%	<4

HOW TO USE

This grease can be applied manually with a brush or spatula, as well as through centralized lubrication system.

USABLE LIFE AND STORAGE

The guaranteed shelf life is 36 months from the date of manufacture in the manufacturer's container, subject to the conditions of transportation and storage.

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 the proper lubricating materials to meet your needs, and to get 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

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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.