

LUKOIL POLYFLEX PU 1,5-460

Specialty polyurea-based grease

DESCRIPTION

LUKOIL® POLYFLEX PU 1,5-460 is a specially developed long-life grease for the bearings operating at high temperatures. The high standard of operational properties of this grease is reached due to combination of polyurea thickener, highly purified mineral oil and specially selected additive package.

LUKOIL® POLYFLEX PU 1,5-460 is applicable for all type rolling bearings operating in the temperature range from –20 °C up to +180 °C (up to +200 °C when using a centralized lubrication system).

LUKOIL® POLYFLEX PU 1,5-460 has high load carrying capacity, and is resistant to exposure of water, cooling fluids and other corrosive environments which are used in the metallurgy industry as well as in other industries where long-term operating capacity of the lubricating material is required. This grease doesn't form carbon deposits in the friction units and is easy to be pumped through the centralized lubrication system.



ADVANTAGES:

- Resistance to the temperatures up to +180°C (short-term up to +200 °C)
- Resistance to washout
- Good pumping ability
- Doesn't form carbon deposits

COMPOSITION:

- Highly purified mineral oil
- Polyurea thickener
- Specialty additive package

APPLICATION IN UNITS:

- Rolling and sliding bearings
- Hub bearings
- Bearings subject to vibration
- Friction units made of nonferrous metals

APPLICATION EXAMPLES:

- Rolling bearings of the rolling mills
- Rolling and sliding bearings of the steel making machines conveyors
- Kilns and drying equipment
- Textile equipment
- Paper-making machines
- Water pump bearings, fan bearings, wheel bearings

LUKOIL® POLYFLEX PU 1,5-460. Edition 12/21 replaces edition 12/20

This product is manufactured according to STO 65561488-062-2016

LUKOIL® POLYFLEX PU 1,5-460 TYPICAL PROPERTIES

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KP1.5R-20
ISO 6743-9	Marking according to ISO 6743-9		L-XBFHA 1.5
	Appearance		Light yellow to brown, homogeneous
	Service temperature range	°C	–20 to +180 (200)
DIN 51818	NLGI grade		1.5
ISO 2137	Worked penetration (60 strokes)	mm/10	285–325
DIN 51562	Base oil viscosity @ 40°C	mm²/s	460
ISO 2176	Dropping point	°C	>240
ASTM D2596	Four Ball Non-Seizure Load @ 25 °C	N kg	1166 119
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.4
ASTM D4048	Copper corrosion		1b
DIN 51805	Flow pressure @ –20 °C	mbar	<1400
DIN 51807 b	Water washout	%	<1

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.