

LUKOIL POLYFLEX PU 1-460; PU 2-460

Specialty Polyurea Greases

DESCRIPTION

LUKOIL® POLYFLEX PU 1-460 and PU 2-460 is specially designed long-term greases for the bearings operating at high temperatures. These greases are applicable for all type rolling bearings operating in the temperature modes from -10 up to +195°C.

LUKOIL® POLYFLEX PU 1-460 and PU 2-460 greases have high load carrying capacity, and are resistant to exposure to water, cooling fluids and other corrosive mediums which are used in the metallurgy industry as well as in other industries where long-term operating capacity of the lubricating material is required. These greases do not form carbon deposits in the units and are easy to be pumped through the centralized lubrication system.

The high standard of operating capacity of LUKOIL® POLYFLEX PU 1-460 and PU 2-460 greases is reached due to combination of polyurea thickener, high-purified mineral oil and specially selected additive package.



ADVANTAGES:

- Resistance to the temperatures up to +195°C (up to +220°C for brief periods)
- Good resistance to washout
- Good pumping ability
- No coking
- Good water resistance

COMPOSITION:

- High-purified mineral oils blend
- Polyurea thickener
- Specialty multi-component additive package

APPLICABLE IN UNITS:

- Rolling and sliding bearings
- Hub bearings
- Bearings subject to vibration
- Lubrication of the components made of nonferrous metals

APPLICATIONS:

- Rolling bearings of the rolling mills
- Rolling and sliding bearings of the steel-casting machine roll trains
- Kiln and drying equipment
- Textile equipment
- Paper-making machines
- Water pump bearings, fan bearings, wheel bearings

LUKOIL POLYFLEX PU 1-460; PU 2-460. Edition 04/18 replaces edition 03/17

These product are manufactured according to STO 65561488-062-2016

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TYPICAL PROPERTIES

Standard*	Property	Unit	PU 1-460	PU 2-460
DIN 51502	Marking according to DIN 51502		KP1R-10	KP2R-10
	Color, appearance	Light-brown, homogeneous		
	Service temperature range	°C	-10 to +195	-10 to +195
DIN 51818	NLGI consistency class		1	2
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10	310-340	265-295
ASTM D6148	Oil separation	% (per weight)	< 4	< 4
DIN 51562	Base oil viscosity at 40°C	mm ² /s	460	460
ISO 2176	Drop point	°C	>240	>240
ASTM D 2266	Weld load (4-ball machine test) at 25°C	N	>2000	>2000
ASTM D 2596	Wear scar (4-ball machine test)	mm	< 0,4	< 0,4
ASTM D 4048	Corrosion degree (copper strip)		1a	1a
DIN 51807 b	Water washout of the bearing	%	< 2	< 2

*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 system at the temperatures down to -10°C.

USABLE LIFE AND STORAGE

When stored in the original unopened containers in a dry place, this product has a shelf life of at least 24 months from the date of production.

HANDLING PRECAUTIONS

This products don'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.