

LUKOIL POLYFLEX EP 1-220 LC

Multi-Purpose Water Washout Resistant Lithium-Calcium Grease

DESCRIPTION

LUKOIL® POLYFLEX EP 1-220 LC grease is a multi-purpose grease based on high-quality mineral base oil blend thickened with lithium-calcium soap fortified with package of high-performance additives improving its performance.

LUKOIL® POLYFLEX EP 1-220 LC grease shows improved tribological features and can operate in conditions of permanent high humidity and in total contact with water, in a wide temperature range from -30 up to +120°C in units under medium to high loads.

LUKOIL® POLYFLEX EP 1-220 LC grease reduces friction and wear, especially on friction elements subject to medium and high loads. The grease is formulated to provide excellent thermal stability and high structure stability during storage and operation.

LUKOIL® POLYFLEX EP 1-220 LC grease has soft consistency and smooth structure.



ADVANTAGES:

- Excellent extreme pressure properties
- Excellent mechanical stability
- Low coefficient of friction
- Good water resistance
- Very good anti-corrosion properties
- Good pumping ability
- Extended service life

COMPOSITION:

- High-purified mineral oil
- Specialty lithium soap
- EP, AW, anti-oxidation and anti-corrosion additives

APPLICABLE IN UNITS:

- Centralized lubrication systems
- Rolling and sliding bearings
- Guideways
- Lubrication of the components made of nonferrous metals
- Some gearbox types

APPLICATIONS:

- Centralized lubrication systems in mining and construction machinery where use of NLGI 1 class lubricating material with good pumpability and increased water resistance is needed
- Rolling and sliding bearings of the industrial equipment, automotive and agricultural machinery
- Bearings of various units operating at normal temperatures and in contact with water

LUKOIL POLYFLEX EP 1-220 LC. Edition 04/18 replaces edition 01/17

This product is manufactured according to **STO** 65561488-009-2016

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TYPICAL PROPERTIES

Standard*	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KP1K-30
	Color, appearance	Straw, brown, homogeneous	
	Service temperature range	°C	-30 to +120
DIN 51818	NLGI consistency class		1
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10	310-340
DIN 51562	Base oil viscosity at 40°C	mm ² /s	220
DIN 51562	Base oil viscosity at 100°C	mm ² /s	19
ISO 2176	Drop point	°C	>200
ASTM D2596	Weld load (4-ball machine test) at 25°C	N	2930
ASTM D2266	Wear scar (4-ball machine test)	mm	0.5
DIN 51802	Corrosion degree (rolling bearings, distilled water)		0-0
ASTM D 4048	Corrosion degree (copper strip)		1a

*DIN: Deutsche Industrie Norm.

ISO: International Standardization Organization.

ASTM: American Society for Testing and Materials.

HOW TO USE

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

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 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.