

LUKOIL POLYFLEX EP 1-220 LC

Multipurpose water washout resistant lithium-calcium grease

DESCRIPTION

LUKOIL® POLYFLEX EP 1-220 LC is a multipurpose grease based on high-quality mineral base oil blend thickened with lithium-calcium soap fortified with package of special 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 °C 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.



<p>ADVANTAGES:</p> <ul style="list-style-type: none"> • Excellent extreme pressure properties • High level of mechanical stability • Low coefficient of friction • Good water resistance • Very good anti-corrosion properties • Easy to pump 	<p>COMPOSITION:</p> <ul style="list-style-type: none"> • Highly purified mineral oil blend • Specialty lithium-calcium soap • EP, AW, 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"> • Centralized lubrication systems in mining and construction machinery where use of NLGI 1 grade lubricating material with good pumpability and increased water resistance is required • Rolling and sliding bearings of the industrial equipment, automotive industry and agricultural machinery operating at normal temperatures and in contact with water

LUKOIL® POLYFLEX EP 1-220 LC. Edition 12/21 replaces edition 09/19

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

LUKOIL® POLYFLEX EP 1-220 LC TYPICAL PROPERTIES

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KP1K-30
ISO 6743-9	Marking according to ISO 6743-9		L-XBCEB 1
	Color, appearance		From light yellow to brown, homogeneous
	Service temperature range	°C	-30 to +120
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	220
DIN 51562	Base oil viscosity @ 100 °C	mm ² /s	19
ISO 2176	Dropping point	°C	>190
ASTM D2596	Four Ball Weld Load @ 25 °C	N kg	2930 299
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.5
DIN 51802	Corrosion protection (SKF-Emcor, distilled water)		0-0
ASTM D4048	Copper corrosion		1a

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.