

LUKOIL POLYFLEX EP 1-220 LC HD

Multipurpose lithium-calcium grease with molybdenum disulfide

DESCRIPTION

LUKOIL® POLYFLEX EP 1-220 LC HD is antifriction grease based on a mixture of high-quality mineral base oils thickened with special lithium-calcium soap. The grease is fortified with a highly effective complex of additives improving its performance and contains solid lubricants for operation in conditions of boundary friction. Operating temperature range is from –30 °C to + 120 °C.

LUKOIL® POLYFLEX EP 1-220 LC HD grease contains specially selected additives in its formula, which provide excellent protection of lubricated parts from corrosion in conditions of constant high humidity and in full contact with water.

The presence of molybdenum disulfide gives the LUKOIL® POLYFLEX EP 1-220 LC HD lubricant excellent anti-wear and extreme pressure characteristics that ensure smooth movement without jerks, reliable protection of equipment in conditions of high specific sliding loads and shock loads, and provides stable pumpability in the centralized lubrication system.



ADVANTAGES:

- Good pumpability
- Very good water resistance
- Prevents jamming
- Excellent extreme pressure properties
- Very good anti-corrosion properties
- Prevents stick-slip effect

COMPOSITION:

- High-purified mineral oil blend
- Specialty lithium-calcium soap
- Additive package: EP, AW, anti-oxidation and anti-corrosion additives
- Molybdenum disulfide

APPLICATION IN UNITS:

- Heavy-loaded sliding bearings
- Splined joints, studs, pivots, pins, axes
- Medium-loaded gear drives
- Various sliding surfaces operating on low speeds and under high dynamic loads
- Centralized and individual lubrication systems

APPLICATION EXAMPLES:

- Wide application in agriculture, mining and construction equipment
- Various mechanisms that operate under severe conditions and are at risk of jamming
- It is used in centralized and individual lubrication systems where use of NLGI grade 1 greases with molybdenum disulfide is recommended

LUKOIL® POLYFLEX EP 1-220 LC HD. Edition 12/21 replaces edition 07/20

This product is manufactured according to **STO 65561488-029-2015**

LUKOIL® POLYFLEX EP 1-220 LC HD TYPICAL PROPERTIES

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KPF1K-30
ISO 6743-9	Marking according to ISO 6743-9		L-XBCFB 1
	Color		Dark grey
	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
ISO 2176	Dropping point	°C	>190
ASTM D2596	Four Ball Weld Load @ 25 °C	N (kg)	>3087 (315)
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.5
DIN 51802	Corrosion protection (SKF-Emcors, distilled water)		0-0

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.