

LUKOIL POLYFLEX EP 1-460 LC HD

Special lithium-calcium grease with molybdenum disulfide

DESCRIPTION

LUKOIL® POLYFLEX EP 1-460 LC HD is antifriction grease based on high-quality high-viscous mineral base oil blend thickened with specialty lithium-calcium soap. That's why grease is applicable under hot and wet climate conditions and full contact with water. The grease is fortified with package of additives improving its performance and contains solid lubricants for operation under boundary friction conditions. Service temperature range is from -20 °C up to +130 °C.

LUKOIL® POLYFLEX EP 1-460 LC HD grease contains specially selected additives in its formula, which provide excellent water washout and corrosion protection of lubricated components in wet environment conditions.

LUKOIL® POLYFLEX EP 1-460 LC HD grease due to solid lubricant content has excellent anti-wear and extreme pressure features, providing smooth movement without jerks, reliable protection of equipment in conditions of specific sliding load and shock load.



<p>ADVANTAGES:</p> <ul style="list-style-type: none"> • Operates in hot and humid climates • Prevents sticking, seizure and stick-slip effect • Excellent extreme pressure properties • Very good water resistance • Good anti-corrosion properties 	<p>COMPOSITION:</p> <ul style="list-style-type: none"> • Highly purified high-viscous mineral oil blend • Specialty lithium-calcium soap • Additive package: EP, AW, anti-oxidation, anti-corrosion additives • Molybdenum disulfide
<p>APPLICATION IN UNITS:</p> <ul style="list-style-type: none"> • 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 	<p>APPLICATION EXAMPLES:</p> <ul style="list-style-type: none"> • Mining and construction machinery, operating under tropical climate conditions • Allowed to be used in the individual lubrication systems where use of NLGI 1 grade lubricant with solid lubricants is recommended

LUKOIL® POLYFLEX EP 1-460 LC HD. Edition 12/21 replaces edition 07/19

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

LUKOIL® POLYFLEX EP 1-460 LC HD TYPICAL PROPERTIES

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KPF1K-20
ISO 6743-9	Marking according to ISO 6743-9		L-XBCFB 1
	Color		Dark grey
	Service temperature range	°C	-20 to +130
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	460
DIN 51562	Base oil viscosity @ 100 °C	mm ² /s	31
ISO 2176	Dropping point	°C	>190
ASTM D2596	Four Ball Weld Load @ 25 °C	N kg	3685 376
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.45
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.