

LUKOIL SYNTHOFLEX ARCTIC 1-100 HD

All-season synthetic complex lithium grease with molybdenum disulfide

DESCRIPTION

LUKOIL® SYNTHOFLEX ARCTIC 1-100 HD is an all-season antifriction grease based on high-quality synthetic oil thickened with complex lithium soap. Due to unique combination and of extreme pressure additives and molybdenum disulfide, this grease perfectly suits for lubrication of all sliding and rolling friction units subject to high shock loads.

LUKOIL® SYNTHOFLEX ARCTIC 1-100 HD has high tribological features. The unique combination of synthetic base oil and thickener provides pumpability in centralized lubrication systems at -50°C . The grease enables extension of re-lubrication intervals.

LUKOIL® SYNTHOFLEX ARCTIC 1-100 HD operates in boundary friction mode and under shock load conditions. Can be used as an all-season grease.



ADVANTAGES:

- Excellent low-temperature properties
- Perfect pumping ability at down to -50°C
- Good mechanical stability
- Superior tribological features within a wide temperature range
- Excellent extreme pressure properties
- High anti-corrosion properties

COMPOSITION:

- High-quality synthetic oil
- Complex lithium soap
- Special additive package
- Molybdenum disulfide

APPLICATION IN UNITS:

- Rolling and sliding bearings
- Centralized and individual lubrication systems
- Gear drives

APPLICATION EXAMPLES:

- Rolling and sliding bearings of the excavators, front-end loaders, bulldozers operating at extremely low temperatures, can be used as all-season lubricant.
- Swivels, pivots, pins, axes, and crossbars of the quarry machinery

LUKOIL® SYNTHOFLEX ARCTIC 1-100 HD. Edition 08/23 replaces edition 12/21

This product is manufactured according to STO 65561488-084-2016

LUKOIL® SYNTHOFLEX ARCTIC 1-100 HD TYPICAL PROPERTIES

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KFHC1N-50
ISO 6743-9	Marking according to ISO 6743-9		L-XEDFA 1
	Color		Grey to black
	Service temperature range	°C	-50 to +140
DIN 51818	NLGI grade		1
ISO 2137	Worked penetration (60 strokes)	mm/10	310–340
DIN 51562	Base oil viscosity @ 40 °C	mm²/s	100
DIN 51562	Base oil viscosity @ 100 °C	mm²/s	11
ISO 2176	Dropping point	°C	>260
DIN 51805	Flow pressure @ -50 °C	mBar	<1400
ASTM D2596	Four Ball Weld Load @ 25 °C	N kg	3920 400
DIN 51802	Corrosion protection (SKF-Emcor, 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.