

# LUKOIL POLYFLEX ARCTIC 0-35 HD

Low-Temperature Lithium Grease with Molybdenum Disulfide

## **DESCRIPTION**

LUKOIL® POLYFLEX ARCTIC 0-35 HD is special anti-friction grease based on high-quality low-viscosity base oil blend thickened with specialty lithium soap fortified with package of high-performance additives improving anti-wear, adhesive and anti-corrosion properties, and solid lubricants.

LUKOIL® POLYFLEX ARCTIC 0-35 HD has special tribological features and is designed to operate within low temperatures range from - 50°C and higher. The grease can operate in boundary friction conditions and under shock loads.



## **ADVANTAGES**

- Excellent low-temperature features
- Excellent pumpability
- Excellent mechanical stability
- Low coefficient of friction
- Good anti-wear properties
- High anti-corrosion properties

## **APPLICATION IN UNITS:**

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

## **COMPOSITION:**

- Highly purified mineral oil
- Specialty lithium soap
- Molybdenum disulfide

## **APPLICATION EXAMPLES:**

- Rolling and sliding bearings of excavators, front-end loaders, push-type scrapers working in severe climate conditions
- Swivels, pivots, pins, axes, and crossbars of the quarry machinery

LUKOIL POLYFLEX ARCTIC 0-35 HD. Edition 05/19 replaces edition 04/18

This product is manufactured according to **STO** 65561488-055-2016

## **LUKOIL® POLYFLEX ARCTIC 0-35 HD**

### **TYPICAL PROPERTIES**

Standard*	Property	Unit	0-35 HD
DIN 51502	Marking according to DIN 51502		KPF0E-50
ISO 6743-9	Marking according to ISO 6743-9		L-XEBEA 0
	Color, appearance		Grey to black
	Service temperature range	°C	-50 to +80
DIN 51818	NLGI consistency class		0
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10	355-385
ASTM D1831	Shell-roll test, change penetration	mm/10	±20
DIN 51562	Base oil viscosity at 40°C	mm <sup>2</sup> /s	35
DIN 51562	Base oil viscosity at 100 °C	mm <sup>2</sup> /s	5,6
ISO 2176	Drop point	°C	>175
DIN 51817	Oil separation (18 hrs, at 40°C)	%	8
DIN 51805	Flow pressure at -40°C	mBar	< 900
ASTM D4693	Start torque on rolling bearing at -50°C	N*m	49
ASTM D942	Oxidation stability	kPa	< 50
ASTM D2596	Weld load (4-ball machine test) at 25°C	N	3087
ASTM D2266	Wear scar (4-ball machine test)	mm	0,65
DIN 51802	Corrosion degree (rolling bearings, distilled water)		0-0
ASTM D4048	Corrosion degree (copper strip)		1a
ASTM D2509	Timken OK load	lbs	>50

\*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 centralized 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 lubricating materials to meet your needs, for 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](mailto: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.