

LUKOIL AQUAFLEX EP 1-180

Multipurpose Water Resistant High-Temperature Grease based on Calcium Sulfonate

DESCRIPTION

LUKOIL® AQUAFLEX EP 1-180 is multipurpose water resistant high-temperature grease based on calcium sulfonate thickener, highly-purified mineral oil blend and high-performance additive package improving adhesion and performance.

LUKOIL® AQUAFLEX EP 1-180 grease has excellent tribological features and can operate under heavy mechanical loads and frequent water contact even with sea water. Recommended service temperature range is from -30 up to +170°C

LUKOIL® AQUAFLEX EP 1-180 grease have soft consistency.



ADVANTAGES:

- Excellent resistance to static and dynamic exposure to water
- High load carrying capacity
- Very good heat resistance
- Excellent pumpability, also at low temperatures
- Superior corrosion protection
- Excellent mechanical stability

COMPOSITION:

- Highly purified mineral oil
- Calcium sulfonate thickener
- Additive package: anti-corrosion, anti-oxidation, anti-wear (AW) / extreme pressure (EP) additives improving adhesion

APPLICATION IN UNITS:

- Rolling bearings operating under high loads and at high temperatures, subject to exposure to water and risk of corrosion
- Sliding bearings
- Bushings, swivels, units where water resistance of the lubricant is required
- Centralized lubrication systems

APPLICATION EXAMPLES:

- Widely used in metallurgical industry where mechanisms are exposed to high temperature, water, steam and high loads
- Used as water resistant lubricant in mining equipment
- Press-pelletizers operating under medium loads and exposed to steam

LUKOIL AQUAFLEX EP 1-180. Edition 05/19 replaces edition 04/18

This product is manufactured according to STO 65561488-014-2014

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TYPICAL PROPERTIES

Standard*	Property	Unit	EP 1-180
DIN 51502	Marking according to DIN 51502		KP1P-30
ISO 6743-9	Marking according to ISO 6743-9		L-XCEIB 1
	Color		Light-brown
	Service temperature range	°C	-30 to +170
DIN 51818	NLGI consistency class		1
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10	310-340
DIN 51562	Base oil viscosity at 40°C	mm ² /s	180
DIN 51562	Base oil viscosity at 100°C	mm ² /s	16
ISO 2176	Drop point	°C	>330
DIN 51817	Oil separation (18 hrs, at 40°C)	%	5
ASTM D2596	Weld load (4-ball machine test) at 25°C	N	4381
ASTM D2266	Wear scar (4-ball machine test)	mm	0,4
DIN 51802	Corrosion degree (rolling bearings, distilled water)		0-0

*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 individual lubrication systems.

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

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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.