

LUKOIL AQUAFLEX EP 1-420

Specialty water resistant high-temperature calcium sulfonate grease

DESCRIPTION

LUKOIL® AQUAFLEX EP 1-420 is a specialty water resistant high-temperature grease based on calcium sulfonate thickener, highly purified high-viscosity mineral oil and additive package improving adhesion and performance.

LUKOIL® AQUAFLEX EP 1-420 has excellent tribological features and can operate under very heavy mechanical loads and permanent water contact even with sea water. Recommended service temperature range is from $-20\text{ }^{\circ}\text{C}$ up to $+180\text{ }^{\circ}\text{C}$.



ADVANTAGES:

- Resistance to static and dynamic exposure of water
- Very high load carrying capacity
- Good heat resistance
- Excellent pumpability, even at low temperatures
- Superior corrosion protection
- High level of mechanical stability

COMPOSITION:

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

APPLICATION IN UNITS:

- Rolling and sliding bearings
- Bushings, swivels and other units where water resistance of the lubricant is required
- Centralized lubrication systems

APPLICATION EXAMPLES:

- Centralized lubrication systems of the rolling mills in metallurgical industry where mechanisms are exposed to high temperature, water, steam and very high loads
- Used as water resistant lubricant in mining equipment
- Press-granulators operating under high loads and exposed to steam

LUKOIL® AQUAFLEX EP 1-420. Edition 12/21 replaces edition 05/19

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

LUKOIL® AQUAFLEX EP 1-420 TYPICAL PROPERTIES

Standard	Property	Unit	Value
DIN 51502	Marking according to DIN 51502		KPIR-20
ISO 6743-9	Marking according to ISO 6743-9		L-XBFFB 1
	Color		Light brown
	Service temperature range	°C	-20 to +180
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	420
DIN 51562	Base oil viscosity @ 100 °C	mm ² /s	28
ISO 2176	Dropping point	°C	>330
ASTM D2596	Four Ball Weld Load @ 25 °C	N kg	4635 473
ASTM D2266	Four Ball Wear Scar Diameter	mm	0.4
DIN 51802	Corrosion protection (SKF-Emcor, distilled water)		0-0
ASTM D4048	Copper corrosion		1a
ASTM D2509	Timken OK load	kg	55
DIN 51807 b	Water washout	%	<2

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.