Wilhelmsen Ships Service

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KLUBERLUB BE 41-1501 (DRUM: 180 KG)

Product group: **686** Product number: **210082**

Klüberlub BE 41-1501 is a heavy-duty grease for highly-loaded rolling bearings operating at low speeds



Product information

Would you like to increase the service life of your highly-loaded rolling bearings running at low speed? Do you need a lubricant for a wide service temperature range?

Klüberlub BE 41- 1501 has been approved by FAG FE 8 tests for effectiveness of in extreme conditions and has been also approved by various bearing manufacturers, e.g. FAG, to be used for applications in low-speed rolling bearings subject to very high loads and shocks.

If the lubricating film becomes adversely stressed under extreme conditions, e.g. during high levels of oscillation and friction, the solid lubricants MoS2 and graphite contained in Klüberlub BE 41-1501 ensure excellent emergency lubricating properties providing additional reliability in the event of starved lubrication.

The product also provides good corrosion protection and is compatible with seals, e.g. made of NBR elastomers. Klüberlub BE41-1501 is approved by leading component OEMs, e.g. Flender and David Brown.

Features

- Designed to meet the requirements of rolling bearings subject to extreme conditions.
- Developed for highly-loaded large rolling bearings running at low speeds.
- Developed for toothed gear systems.
- The operating conditions of roller bearings require use of a heavy duty grease with high base oil viscosity with suitability for the following conditions: low speed, n = 10-30 rpm, high load, P/C = 0.25 - 0.50, bearing temperature approx. 50-70 °C.
- Suitable for the lubrication of pivoting bearings, plain bearings and industrial gear couplings.

Benefits

- Excellent wear protection under the highest dynamic load conditions
- Good load-carrying capacity at low rotational speeds
- Reliable lubricant film formation at high service temperatures
- Emergency lubricating properties due to the addition of special solid lubricants

Specification

General

Suggested Inventory Hazard Material classification	C-30

Physical properties

Colour	black
Density at 20°C [g/cm³]	ca 0.92
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C [mm²/s]	ca 60
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C [mm²/s]	ca 1500
Materials compatibility	Compatibility with elastomers, 72 NBR 902 ,168h/ 100°C, hardness (Shore A) ca. -5 unit
NLGI grade, DIN 51818	1
Texture	homogenous

Technical data

Chemical composition, thickener	special lithium soap
Compatibility	Compatibility with elastomers, 72 NBR 902 ,168h/ 100°C,change in volume < 10%
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C [mbar]	<- 1 corrosion degree
Shelf life [months]	36
Speed factor (n x dm)	ca. 100000 mm/min

Performance data

Drop point, DIN ISO 2176, IP 396 [°C]	>= 180
FAG FE9 rolling bearing tester, DIN 51821 pt. 02, speed: 6000 min-1, axial load: 1500 N, temperature: 150 °C, service life F50 [h]	>= 100 h
Lower service temperature	-10 °C
Upper service temperature	150 °C

Documents

SDoC and MD for IHM

Directions for use

When using Klüberlub BE 41-1501 with automatic grease pumps, the ambient temperature should be ≥ 15 °C.

Klüberlub BE 41-1501 has been tested and verified for use with selected plastics and elastomers, however, we recommend checking compatibility prior to series application to ensure reliable equipment operation.

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