

# KLÜBERBIO BM 32-142 25 KG

Product group: **682**    Product number: **210016**

KLÜBERBIO BM 32-142 is a multi-purpose Environmentally Acceptable Lubricant (EAL) built for rolling and plain bearings. Exhibiting good low-temperature behaviour, it was designed to perform even in very low ambient temperatures, across various environmental sensitivity needs.



## Product information

Rolling and plain bearings in the offshore and maritime industry are frequently subject to extreme ambient conditions. Prolonged saltwater contact, extreme temperatures, high friction, high pressure, and high loads are just some of the tough conditions they encounter. KLÜBERBIO BM 32-142 now offers you a versatile, multi-purpose solution to manage these demanding conditions.

With excellent low-temperature behaviour, KLÜBERBIO BM 32-14 supports your rolling and plain bearings even in very low ambient temperature conditions. Its formulation also contains select additives to protect your components from wear and corrosion, boosting their component lives.

Bolstered by an excellent load-carrying capacity, KLÜBERBIO BM 32-14 ensures you can enjoy longer maintenance intervals for your equipment.

KLÜBERBIO BM 32-14 complies with the requirements for classification as an Environmentally Acceptable Lubricant (EAL) in terms of biodegradability, toxicity and bioaccumulation, as defined by the US Environmental Protection Agency for the "2013 Vessel General Permit".

## Features

- Compliant with the requirements for Environmentally Acceptable Lubricants as defined in Appendix A of the 2013 Vessel General Permit
- Multi-purpose
- Good low-temperature behaviour
- High load-carrying capacity
- Corrosion and wear protection

## Benefits

- Environmentally-friendly
- Conveniently suitable for a range of applications and components
- High-performance in very low ambient temperatures
- Protects your components from wear and corrosion, extending their service lives
- Extend maintenance intervals of your parts

## Specification

### General

Invent Hazard Material (IMO/EU) classification	C-30
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### Dimensions/Weight

Packing Size	25 kg
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### Performance data

Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	≤1 corrosion degree
Four-ball EP tester, wear value, DIN 51350 part 5, procedure E, 60s/1000N, wear scar diameter [mm]	≤1.8
Lower service temperature	-40°C / -40°F
Low-temperature torque, IP 186, -40 °C, running [mNm]	≤100
Low-temperature torque, IP 186, -40 °C, start [mNm]	≤1000
Upper service temperature	120°C / 248°F
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	1 - 90

### Physical properties

Biodegradability of the base oil, acc. to OECD 301 F, (within 28 days) [%]	≥60
Colour	Beige
Density at 20°C [g/cm <sup>3</sup> ]	~ 0.94
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C [mm <sup>2</sup> /s]	~ 22
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C [mm <sup>2</sup> /s]	~ 140
NLGI grade, DIN 51818	2

### Technical data

Shelf life [months]	36
Speed factor (n x dm)	~ 300 000 mm/min

## Documents

[SDoC and MD for IHM](#)

## Directions for use

KLÜBERBIO BM 32-14 is suitable for the lubrication of rolling and plain bearings with high surface pressure which may come in direct contact with the natural environment. Given its eco-compatibility, corrosion protection and load-carrying capacity, it is ideal to use in the offshore and maritime industry.

Apply KLÜBERBIO BM 32-14 by brush, spatula, grease gun or automatic lubricant dispensers.

Note that under the effects of UV, KLÜBERBIO BM 32-14 turns a reddish colour. This, however, does not affect its performance.

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