

Klüberbio BM 32-142

Environmentally acceptable multi-purpose grease for rolling and plain bearings



Your benefits at a glance

- Complies with the requirements for Environmentally Acceptable Lubricants as defined in Appendix A of the 2013 Vessel General Permit
- The grease's good low-temperature behaviour enables operation at very low ambient temperatures
- Selected additives ensure longer component life and reduced wear
- Longer maintenance intervals due to good resistance to wear and corrosion as well as load-carrying capacity

Your requirements - our solution

As a manufacturer or operator of marine equipment that is frequently subject to extreme ambient conditions and in contact with sea water you are likely to be interested in obtaining an eco-friendly, high-performance operating lubricant.

Our Klüberbio BM 32-142 is a high-performance grease combining very good eco-friendliness with an excellent load-carrying capacity, good antiwear and anticorrosive effect and good low-temperature behaviour.

These performance characteristics make Klüberbio BM 32-142 the preferred multi-purpose product for a variety of applications and components in environmentally sensitive areas.

Klüberbio BM 32-142 also 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".



The EU Ecolabel is a label of environmental excellence that is awarded to products and services meeting high environmental standards throughout their life cycle: from raw material extraction, to production, distribution and disposal.

Application

Klüberbio BM 32-142 was developed for the lubrication of rolling and plain bearings with high surface pressure which can get in direct contact with nature. It combines good eco-compatibility with high corrosion protection and load-carrying capacity, making it an ideal lubricant for maritime applications.

Typical applications include bearings in cranes, fairleads, winches and rudder systems.

If you have any questions regarding your application, our experts will be happy to help you.

Application notes

Klüberbio BM 32-142 can be applied by brush, spatula, grease gun or automatic lubricant dispensers, also at low temperatures.

Please note that Klüberbio BM 32-142 takes on a reddish colour under the effects of UV. This does not affect the performance of the lubricating grease.

This product is also available in our automatic lubricant dispenser Klübermatic. Please consult the application engineering experts from Klüber Lubrication to determine whether Klübermatic might be used under the conditions in your processes.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

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Pack sizes	Klüberbio BM 32-142
Can 1 kg	+
Bucket 25 kg	+

Characteristics	Klüberbio BM 32-142
Article number	009053
Colour space	beige
Service temperature, lower limit	-40 °C
Service temperature, upper limit	120 °C
EU Ecolabel registration number	DE/027/262
Lubricating greases - K, DIN 51825@DIN 51502	KPE2K-40L
Biodegradability, OECD 301 F, 28, within days	≥ 60 %
Density, Klüber method: PN 024, 20°C	approx. 0.94 g/cm ³
NLGI grade, DIN 51818	2
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 22 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 140 mm ² /s
Copper corrosion, DIN 51811, 24 h, 100°C	1 - 100 - 24 corrosion degree
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Low temperature torque, IP 186, -40°C, running torque	≤ 100 mNm
Low temperature torque, IP 186, -40°C, starting torque	≤ 1000 mNm
Four-ball tester: wear characteristics, DIN 51350-5, E: 1000 N, 1 min, wear scar diameter	≤ 1.8 mm
Speed factor (n x dm)	approx. 300000 mm/min
Water resistance, DIN 51807-1, 3 h, 90°C	1 - 90 rating
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

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Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

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