

Klüberplex BEM 41-132

High-temperature and long-term grease for rolling bearings



Benefits for your application

- Longer service life due to special wear additives for roller bearings
- Less maintenance
- Versatile grease due to wide operating temperature range and optimised oil release

Description

Klüberplex BEM 41-132 is based on synthetic hydrocarbon oil, mineral oil and a special lithium soap. Special additives ensure optimum oxidation resistance as well as protection against wear and corrosion.

Application

Klüberplex BEM 41-132 can be used for long-term or lifetime lubrication of rolling bearings.

For rolling bearings with a high degree of sliding friction, e.g.

- tapered roller bearings
- cylinder roller bearings
- spherical roller bearings

or

for-life lubricated deep groove ball bearings

and

rolling bearings e.g. in

- paper-making machines (dry section)
- textile machines (dry section)
- electric motors
- hot air blowers
- drying ovens
- air separators in the base materials industry
- generators in wind power plants

or

rolling bearings in vehicle components

- clutch bearings
- generator bearings
- water pump bearings
- fluid fan bearings

Application notes

Klüberplex BEM 41-132 is applied by means of spatula, brush or grease gun. For application via automatic lubricating systems, pumpability should be checked beforehand. Prior to series application we recommend testing the compatibility of the lubricant with the materials in contact.

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.

| Pack sizes | Klüberplex BEM 41-132 |
|---|-----------------------|
| Cartridge Polypropylene (PP) 400 g | + |
| Can 1 kg | + |
| Drum 170 kg | + |
| Cartridge Copolyester Klübermatic STAR 120 ml | + |
| Cartridge Copolyester Klübermatic STAR 250 ml | + |

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|--|-----------------------|
| Cartridge PA 6 Klübermatic FLEX 125 ml | + |
| Cartridge PA Klübermatic NOVA 125 ml | + |
| Cartridge PET Klübermatic PRO 250 ml | + |

| Product data | Klüberplex BEM 41-132 |
|--|--------------------------------|
| Article number | 020256 |
| Lubricating greases -K, DIN 51825 in connection with DIN 51502 | KPHC2N-30L |
| Chemical composition, thickener | special lithium soap |
| Chemical composition, type of oil | synthetic hydrocarbon oil |
| Chemical composition, type of oil | mineral oil |
| Lower service temperature | -40 °C / -40 °F |
| Upper service temperature | 150 °C / 302 °F |
| Colour space | yellow |
| Density at 20 °C | approx. 0.90 g/cm ³ |
| Worked penetration, DIN ISO 2137, 25 °C, lower limit value | 265 x 0.1 mm |
| Worked penetration, DIN ISO 2137, 25 °C, upper limit value | 295 x 0.1 mm |
| Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C | approx. 120 mm ² /s |
| Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C | approx. 14 mm ² /s |
| Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water | <= 1 corrosion degree |
| Drop point, DIN ISO 2176, IP 396 | >= 250 °C |
| Speed factor (n x dm) | approx. 1 000 000 mm/min |
| Oil separation, DIN 51817 N, after 7 d/40 °C | <= 4 % by weight |
| Testing of lubricating greases on FAG FE9 rolling bearing tester, DIN 51821 pt. 02, speed: 6000 min ⁻¹ , axial load: 1500 N, temperature: 150 °C, service life F50: | >= 100 h |
| Low-temperature torque, IP 186, -40 °C, start | <= 1 000 mNm |
| Low-temperature torque, IP 186, -40 °C, running | <= 200 mNm |
| 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 80 years.

**Klüber Lubrication München SE & Co. KG /
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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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