

Klüberplex BEM 41-132

High-temperature and long-term grease for rolling bearings



Your benefits at a glance

- 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

Your requirements - our solution

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 370 g	+
Cartridge 400 g	+
Can 1 kg	+
Bellow 5 kg	+

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Bucket 25 kg	+
Bucket 50 kg	+
Drum 170 kg	+

Characteristics	Klüberplex BEM 41-132
Article number	020256
Composition, thickener	lithium complex soap
Composition, type of oil	mineral oil , synthetic hydrocarbon oil
Colour space	yellow
Service temperature, lower limit	-40 °C
Service temperature, upper limit	150 °C
Lubricating greases - K, DIN 51825@DIN 51502	KPHC2N-30L
Density, Klüber method: PN 024, 20°C	approx. 0.9 g/cm ³
NLGI grade, DIN 51818	2
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , lower limit	3000 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , upper limit	6000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 14 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 120 mm ² /s
Copper corrosion, DIN 51811, 24 h, 120°C	1 - 120 - 24 corrosion degree
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Oil separation, ASTM D6184, based on standard, 30 h, 150°C	≤ 8 % by weight
Oil separation, DIN 51817 N, 168 h, 40°C	≤ 4 % by weight
Low temperature torque, IP 186, -40°C, running torque	≤ 200 mNm
Low temperature torque, IP 186, -40°C, starting torque	≤ 1000 mNm
Dropping point, DIN ISO 2176 / IP 396	≥ 250 °C
FAG FE9 rolling bearing test, DIN 51821-2, 1500 / 6000-150, service life F50	≥ 100 h
Shell roll stability, ASTM D1831, based on standard, 50 h, 100°C, penetration difference	≤ +80 0.1 mm
Speed factor (n x dm)	approx. 1000000 mm/min
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.

Klüber Lubrication München GmbH & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.

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