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 at operating temperatures between 70 and 110 °C.

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.

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 400 g	+
Can 1 kg	+
Bucket 25 kg	+
Drum 170 kg	+

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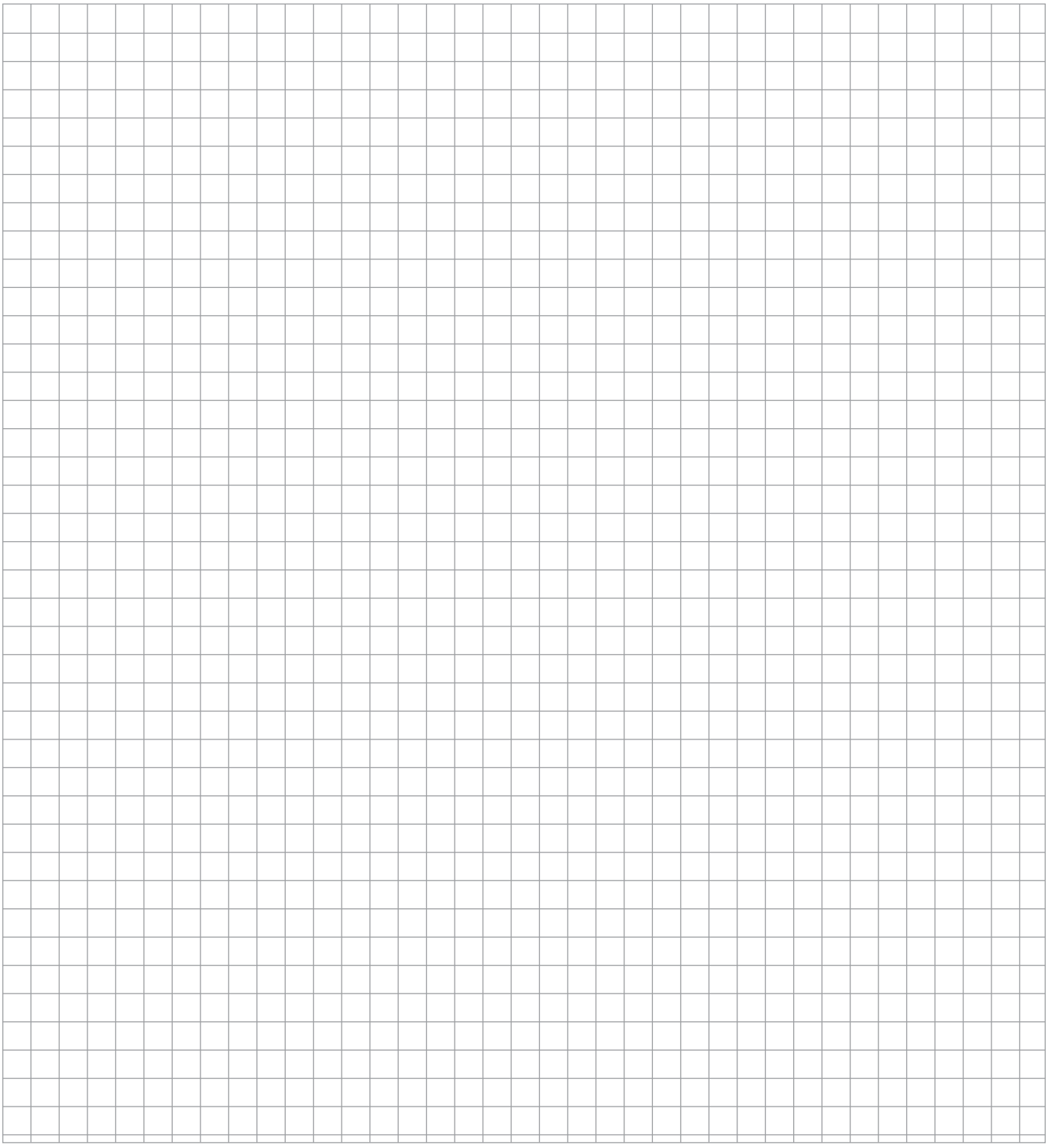
Product data	Klüberplex BEM 41-132
Article number	020256
Chemical composition, thickener	special lithium soap
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, type of oil	mineral oil
Lower service temperature	-40 °C / -40 °F
Upper service temperature	150 °C / 302 °F
Colour space	yellow
Density at 20 °C	approx. 0.9 g/cm³
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 120 mm²/s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 14 mm²/s
Shear viscosity at 25°C, shear rate 300 s-1, equipment:rotational viscometer, upper limit value	6 000 mPas
Shear viscosity at 25 °C, shear rate 300 s-1, equipment: rotational viscometer, lower limit value	3 000 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/120 °C	1 - 120 corrosion degree
Drop point, DIN ISO 2176	>= 250 °C
Speed factor (n x dm)	approx. 1 000 000 mm/min
Oil separation, based on ASTM D 6184 [FTMS 791 C 321] after 30 h/150 °C	<= 8 % by weight
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
Lubricating greases -K, DIN 51825 in connection with DIN 51502	KPHC2N-30L
Shell roll stability, based on ASTM-D 1831, after 50h, 100°C, difference in penetration	<= +80 x 0.1 mm
Low-temperature torque, IP 186, -40 °C, running	<= 200 mNm
Low-temperature torque, IP 186, -40 °C, start	<= 1 000 mNm
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months



Product information

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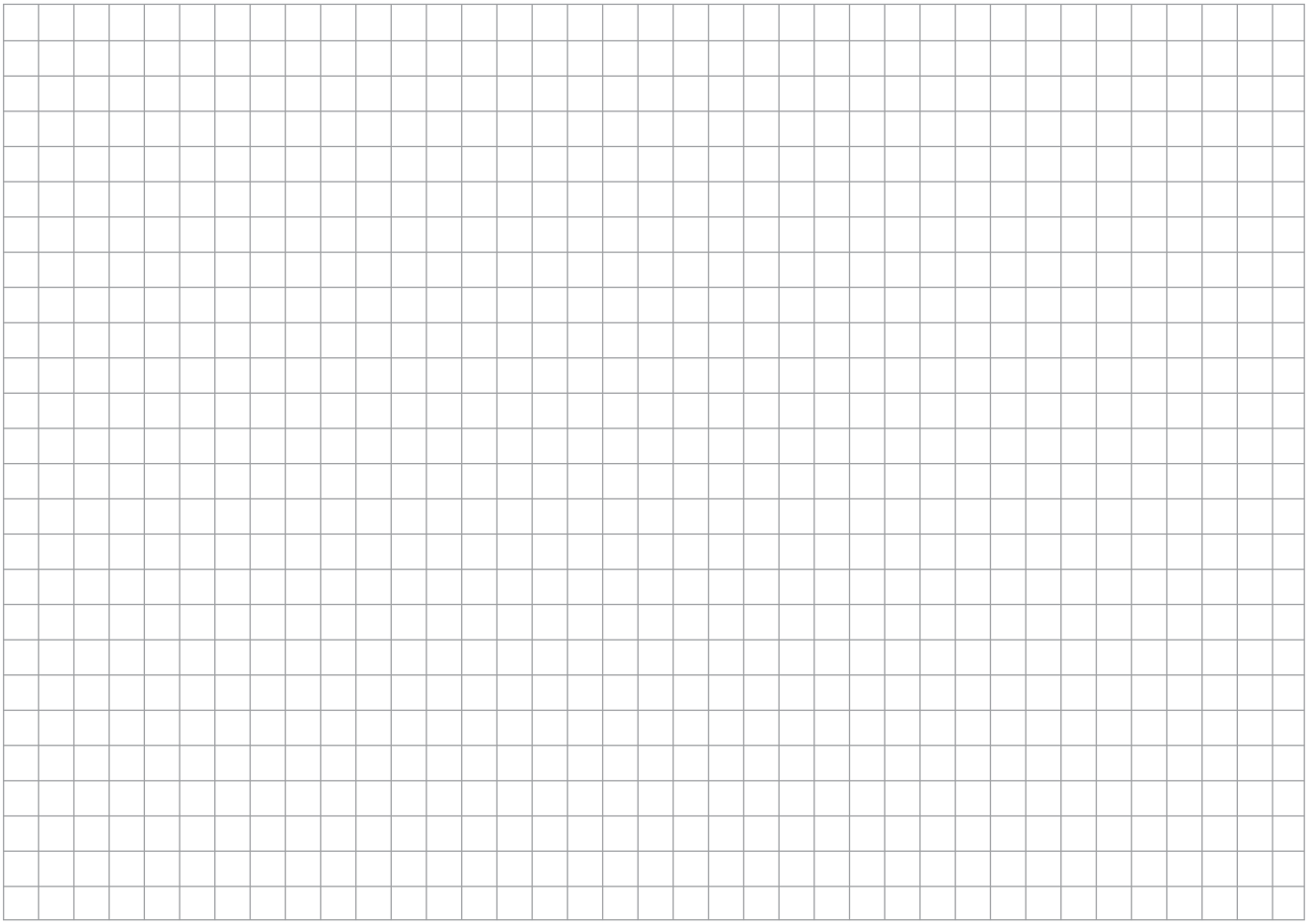

Klüber Lubrication – your global specialist

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 / Geisenhausenerstraße 7 / 81379 München / Germany / phone +49 89 7876-0 / fax +49 89 7876-333.

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