

Klüberplex BEM 34-132, 34-131 N

Special greases for rolling bearings and linear guides operating under demanding conditions



Benefits for your application

- **Long service intervals due to excellent wear protection and ageing resistance enabling long-term or lifetime lubrication**
- **Reliable function and many years of experience**
- **Standardization possible due to multiple uses**
- **Very good function of the rolling bearings due to high load resistance also with micro-movements**
- **Longer rolling bearing life due to excellent corrosion protection and resistance to media**

Description

Klüberplex BEM 34-132, BEM 34-131 N are based on synthetic hydrocarbon oil, mineral oil and special calcium soap. They are used for the lubrication of rolling bearings, sliding bearings, linear guides and small gears operating under high loads.

Because of its soft consistency (NLGI class 1) and special additives, Klüberplex BEM 34-131 N is preferably used for rolling bearings operating under oscillating loads.

Further fields of application are linear guides and ball screws performing micro-movements. Klüberplex BEM 34-131 N is preferably used for the relubrication of linear guides and ball screws that were initially lubricated with Klüberplex BEM 34-132.

Application

Klüberplex BEM 34-132 is preferred for the long-term or lifetime lubrication of rolling bearings, e.g.:

Rolling bearings for:

- textile machines (wet section)
- spinning machines (upper and lower rollers)
- paper-making machines (wet section)
- conveyors (wet section)
- electric motors, fans, pumps

or components in cars

- shock absorbers
- hub units (ball bearings)
- water pumps
- universal joint bushings

Klüberplex BEM 34-132 can also be used in rolling bearings performing an oscillating motion, or as lubricating and sealing grease for labyrinth seals.

Further applications:

- plain bearings
- spur and involute gear teeth arrangements
- gears in power tools with steel/steel, steel/plastic, plastic/plastic components

Klüberplex BEM 34-132 performs excellently when used for the lubrication of linear guides and ball screws where micro-movements occur.

Application notes

Klüberplex BEM 34-132, BEM 34-131 N can be processed by means of spatula, brush and lever grease guns. When using automatic lubricating systems, their suitability for pumping Klüberplex BEM 34-132 should be checked. Klüberplex BEM 34-132 is not suited for longer lubrication lines, which is why Klüberplex BEM 34-131 N should be given preference for such applications.

Resistance to water and media

Klüberplex BEM 34-132 has good resistance to water, water vapor up to 130 °C, many diluted alkaline solutions and acids, e.g.

10% caustic potash solution up to 90 °C,

10% sulphuric acid up to 70 °C,

10% nitric acid up to 40 °C,

1% hydrochloric acid up to 40 °C

(test based on DIN 51 807, pt.1 with V 2 A steel strips)

Material safety data sheets

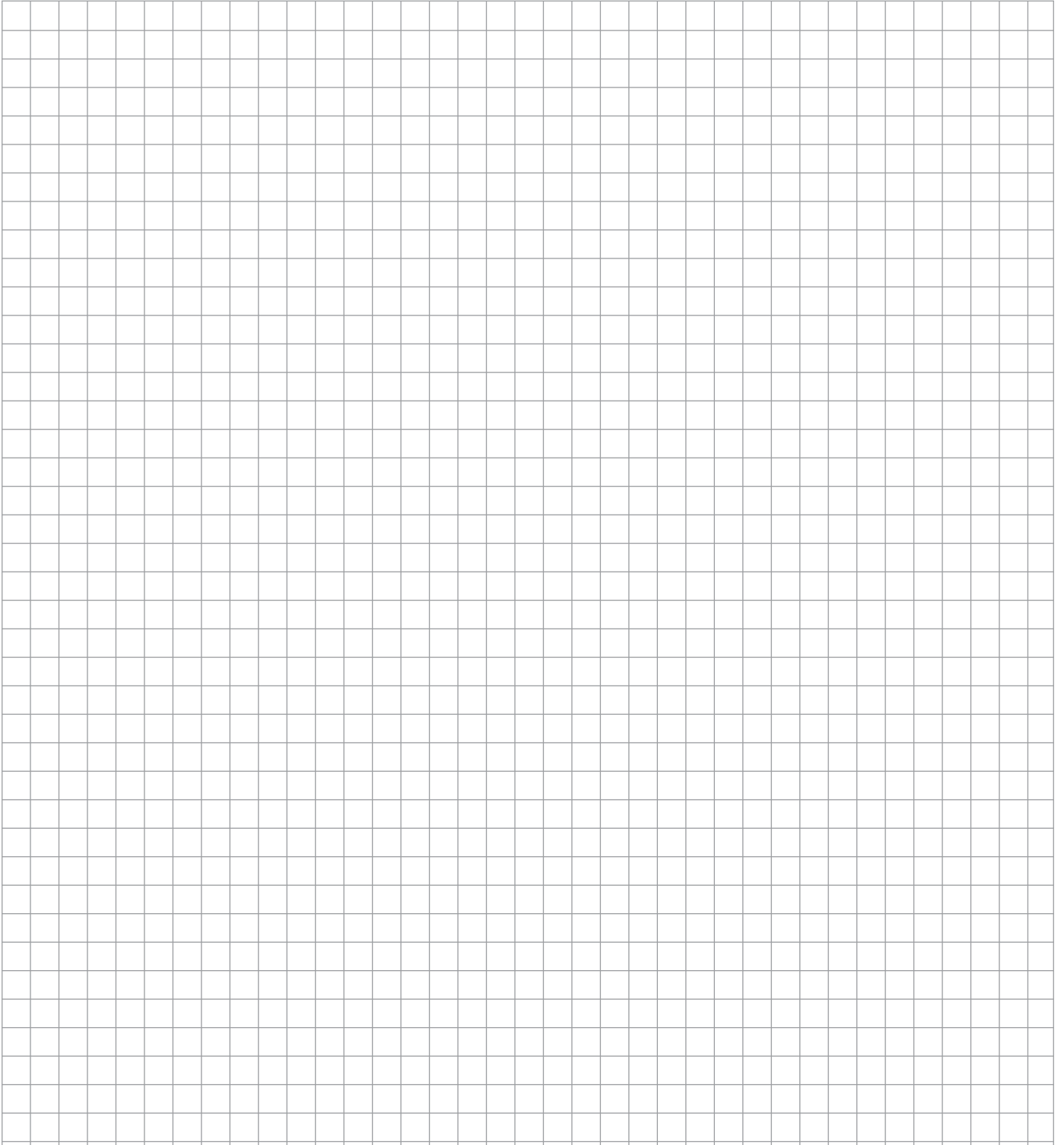
Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

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Pack sizes	Klüberplex BEM 34-131 N	Klüberplex BEM 34-132
Can 1 kg	+	+
Bucket 25 kg	+	+
Drum 180 kg	+	+

Product data	Klüberplex BEM 34-131 N	Klüberplex BEM 34-132
Article number	017181	017141
Chemical composition, type of oil	mineral oil	mineral oil
Chemical composition, type of oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil
Chemical composition, thickener	calcium complex soap	calcium complex soap
Lower service temperature	-35 °C / -31 °F	-35 °C / -31 °F
Upper service temperature	140 °C / 284 °F	140 °C / 284 °F
Colour space	yellow	beige
Density at 20 °C	approx. 0.9 g/cm ³	approx. 0.9 g/cm ³
Lubricating greases -K, DIN 51825 in connection with DIN 51502	KPHC1N-30L	KPHC2N-30L
Speed factor (n x dm)	approx. 1 000 000 mm/min	approx. 400 000 mm/min
NLGI grade, DIN 51818	1	2
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 134 mm ² /s	approx. 130 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 16 mm ² /s	approx. 15.5 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	>= 220 °C	>= 220 °C
Flow pressure of lubricating greases, DIN 51805, test temperature: -30 °C	<= 1 400 mbar	<= 1 600 mbar
Testing of lubricating greases on FAG FE9 rolling bearing tester, DIN 51821 pt. 02, speed: 6000 min ⁻¹ , axial load: 1500 N, temperature: 140 °C, service life F50:	>= 100 h	>= 100 h
Low-temperature torque, IP 186, -35 °C, running	<= 100 mNm	<= 100 mNm
Low-temperature torque, IP 186, -35 °C, start	<= 1 000 mNm	<= 1 000 mNm
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm	295 x 0.1 mm
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	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 /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

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