

Klüberplex® BEM 34-132

Special grease 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
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Description

Klüberplex BEM 34-132 is based on synthetic hydrocarbon oil, mineral oil and special calcium soap.

Klüberplex BEM 34-132 is used for the lubrication of rolling bearings, sliding bearings, linear guides and small gears operating under high loads.

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 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.

Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry, frost-free place.

In contrast to many calcium and calcium complex greases, Klüberplex BEM 34-132 has a particularly stable structure.

Pack sizes

- 1 kg can
- 25 kg bucket
- 180 kg drum

Material Safety data sheets

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





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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).

Behavior towards elastomers and plastics:

The following elastomers were tested for 168 h at 100 °C and 120 °C for compatibility with Klüberplex BEM 34-132.

We recommend testing the grease for compatibility with all materials involved prior to series application.

(Our test results are based on individual tests and do not release the user from the obligation to perform tests for his own applications.)

Material	72 NBR 902	75 FPM 585
Time/Test temperature	168 h / 100 °C	168 h / 120 °C
Change in volume (%)	4	1
Hardness (Shore A)	-3	2
Tensile strength (%)	-15	+8
Elongation at tear (%)	8	-33

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Product data	Klüberplex BEM 34-132
Base oil / thickener	synth. hydrocarbon oil, mineral oil, special calcium soap
Service temperature range*, DIN 51 825 / 51 821/2, [°C], approx.	– 35 to 140
Color	beige-light brown
Density at 20 °C, [g/cm ³], approx.	0.9
Drop point, DIN ISO 2176, [°C]	≥ 220
Consistency class, DIN 51818, NLGI	2
Base oil viscosity, DIN 51 562 at 40 °C, [mm ² /s], approx. at 100 °C, [mm ² /s], approx.	130 15.5
Corrosion protection (Emcor test), DIN 51 802, 1 week, distilled water, corrosion rating	≤ 1
Flow pressure, DIN 51 805, at –35 °C, [mbar]	≤ 1400
Low-temperature torque acc. to IP 186 at –35 °C Starting torque, [Nmm] Running torque, [Nmm]	≤ 1000 ≤ 100
FAG-FE 9 test run, DIN 51 821/2, F _a = 1500 N, n = 6000 min ⁻¹ , 140 °C, L ₅₀ runtime, [h]	≥ 100
Speed factor** for deep groove ball bearings (n x d _m), mm x min ⁻¹ , approx.	400,000

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

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www.klueber.com

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