

Klübersynth BEM 34-32

Synthetic smooth-running grease for linear guides and bearings in clean room production areas



Your benefits at a glance

- enables low starting and running torque
- high pressure absorption capacity
- good wear protection
- excellent oxidation and ageing stability
- good water and media resistance

Your requirements - our solution

Klübersynth BEM 34-32 is a special high pressure, synthetic, smooth-running grease for use across a wide service temperature range. Its excellent ageing stability allows extended relubrication intervals or lifetime lubrication to be accomplished.

Application

The low base oil viscosity of Klübersynth BEM 34-32 ensures smooth running of linear guides, ball bushings, ball screws, rolling bearings, plain bearings as well as small gear systems in all sectors which are not subject to high vacuum, high temperatures or aggressive media. Due to the excellent metal adhesion properties, Klübersynth BEM 34-32 achieves considerably lower wear rates than many PFPE-based greases used under similar application

conditions. The product is compatible with most plastic seals and cage materials.

Application notes

Klübersynth BEM 34-32 can be applied by brush, spatula or preferably by grease gun. Owing to the many different plastic compositions the lubricant's compatibility should be checked prior to series production. Please note that Klübersynth BEM 34-32 takes on a beige-greenish colour under the effects of UV. This does not affect the performance of the lubricating grease.

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 | Klübersynth BEM 34-32 |
|-----------------|-----------------------|
| Cartridge 370 g | + |
| Cartridge 400 g | + |

| Characteristics | Klübersynth BEM 34-32 |
|----------------------------------|-----------------------------|
| Article number | 004127 |
| Composition, thickener | calcium complex soap |
| Composition, type of oil | synthetic hydrocarbon oil |
| Colour space | beige |
| Texture | homogeneous , short fibrous |
| Service temperature, lower limit | -50 °C |
| Service temperature, upper limit | 130 °C |

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| Characteristics | Klübersynth BEM 34-32 |
|---|--------------------------------|
| 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 | 2800 mPas |
| Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , upper limit | 5200 mPas |
| Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C | approx. 5.9 mm ² /s |
| Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C | approx. 31 mm ² /s |
| Dropping point, DIN ISO 2176 / IP 396 | ≥ 220 °C |
| Speed factor (n x dm) | approx. 1000000 mm/min |
| Water resistance, DIN 51807-1, 3 h, 90°C | 1 - 90 rating |
| Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. | 36 months |

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 95 years.

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