

# Klübersynth BEM 34-32

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



## Benefits for your application

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

## Description

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.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

| Pack sizes                 | Klübersynth BEM 34-32 |
|----------------------------|-----------------------|
| Tube 50 g                  | +                     |
| 60 g bellow-type cartridge | +                     |
| Cartridge 400 g            | +                     |

| Product data   | Klübersynth BEM 34-32     |
|--|---------------------------|
| Article number   | 004127                    |
| Chemical composition, thickener                            | special calcium soap      |
| Chemical composition, type of oil                          | synthetic hydrocarbon oil |
| Lower service temperature                                  | -40 °C / -40 °F           |
| Upper service temperature                                  | 130 °C / 266 °F           |
| Colour space   | beige                     |
| Texture  | short-fibred              |
| Texture  | homogeneous               |
| Worked penetration, DIN ISO 2137, 25 °C, lower limit value | 265 x 0.1 mm              |



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|--|--------------------------------|
| Worked penetration, DIN ISO 2137, 25 °C, upper limit value   | 295 x 0.1 mm                   |
| Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C  | approx. 31 mm <sup>2</sup> /s  |
| Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C   | approx. 5.9 mm <sup>2</sup> /s |
| NLGI grade, DIN 51818  | 2                              |
| Speed factor (n x dm)  | approx. 1 000 000 mm/min       |
| Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value               | 2 800 mPas                     |
| Shear viscosity at 25°C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer, upper limit value                 | 5 200 mPas                     |
| Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water       | <= 1 corrosion degree          |
| Drop point, DIN ISO 2176, IP 396   | >= 220 °C                      |
| Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating  | 1 - 90                         |
| 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 80 years.

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