

# Klüberlub BEM 41-122

Special lubricating grease with light coloured solid lubricants for slow, oscillating movements



## Benefits for your application

- for pivoting bearings, rolling and plain bearings
- for high surface pressure
- for slow oscillating movements
- long-term lubrication due to formation of tribolayers
- reduces tribocorrosion

## Description

Klüberlub BEM 41-122 is based on a mixture of mineral oil and synthetic hydrocarbon oil thickened with a special lithium soap and light coloured solid lubricants.

The special structure of Klüberlub BEM 41-122 combines with the friction surface to form wear-resistant tribo-layers. Such tribo-layers reduce wear and prevent tribocorrosion, thus increasing the component's service life. In addition the special additives contained in Klüberlub BEM 41-122 improve the general oxidation stability and corrosion protection of the lubricant.

## Application

Klüberlub BEM 41-122 has been designed specially for lubrication of pivoting rolling and plain bearings subject to high surface pressure and slow oscillating movements in the mixed friction regime. The product is especially suitable for steel/steel bearings to prevent premature failure and scuffing damage.

Such bearings can be found in the automotive and aviation industry, building machinery, agriculture and forestry machinery.

## Application notes

Klüberlub BEM 41-122 may be applied by brush, spatula, grease gun or cartridge. Pumpability in automatic lubrication systems should be checked prior to longer term use.

## 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	Klüberlub BEM 41-122
Cartridge 450 g	+
Can 1.2 kg	+
Bucket 30 kg	+

  

Product data	Klüberlub BEM 41-122
Article number	020158
Chemical composition	solid lubricant
Chemical composition, thickener	special lithium soap
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, type of oil	mineral oil
Lower service temperature	-30 °C / -22 °F
Upper service temperature	140 °C / 284 °F
Colour space	yellow



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Product data	Klüberlub BEM 41-122
Density at 20 °C	approx. 1.10 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
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. 130 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 15 mm <sup>2</sup> /s
NLGI grade, DIN 51818	2
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	1 corrosion degree
Speed factor (n x dm)	approx. 400 000 mm/min
Drop point, DIN ISO 2176, IP 396	>= 190 °C
Flow pressure of lubricating greases, DIN 51805-2, test temperature: -30 °C	<= 1 400 mbar
Four-ball tester, welding load, DIN 51350 pt. 04	>= 3 500 N
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 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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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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