

Klüberplex BEM 41-301

Special lubricating grease for rolling bearings subject to high loads, low speeds and vibrations



Your benefits at a glance

- Longer service life of rotor bearings due to good wear protection characteristics, also under vibrations and oscillations
- Low frictional resistance and reduced component temperature due to excellent lubricity
- Increased operational reliability of installations due to excellent corrosion protection
- Trouble-free operation due to good pumpability and metering via centralised lubrication systems

Your requirements - our solution

Klüberplex BEM 41-301 shows good wear protection under rotating or oscillating movement and high impact loads. Due to its good compatibility with commercial sealing materials, the grease can be used for a wide range of applications.

Application

Klüberplex BEM 41-301 is suitable for the initial lubrication and relubrication of rotor bearings in wind power stations. It has been especially developed for the long-term or lifetime lubrication of highly loaded rolling and plain bearings subject to vibrations and oscillations (e.g. in paper-making machines and conveyors).

Application notes

Klüberplex BEM 41-301 can be applied by means of brush, spatula, grease gun, grease metering gun, automatic low-quantity or standard metering systems, grease cartridge, and centralised lubrication systems. We recommend conducting a metering test in the original dosing device under practical operating conditions.

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	Klüberplex BEM 41-301
Can 1 kg	+
Cartridge 5 kg	+
Drum 170 kg	+

Product data	Klüberplex BEM 41-301
Article number	020527
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	120 °C / 248 °F
Density at 20 °C	approx. 0.91 g/cm ³
Colour space	yellow
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 300 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 23 mm ² /s



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Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Flow pressure of lubricating greases, DIN 51805, test temperature: -30 °C	<= 2 000 mbar
NLGI grade, DIN 51818	1
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	2 000 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	5 000 mPas
Low-temperature torque, IP 186, -30 °C, Start	<= 1 000 mNm
Low-temperature torque, IP 186, -30 °C, operation	<= 200 mNm
Drop point, DIN ISO 2176, IP 396	>= 230 °C
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.

**Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

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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