

Klübersynth BEM 44-4600

High-performance fluid grease for long-term lubrication



Your benefits at a glance

- Comprehensive gear protection due to high failure load stage
- Stops gearbox leakage due to its thixotropic behaviour
- Multiple uses due to wide service temperature range
- Reduced power consumption due to low starting torque

Your requirements - our solution

Do you operate low-speed gearboxes and bearings under demanding conditions, e.g. at different angles, low ambient or constantly changing operating temperatures? Seals can fail and conventional gear oils may rapidly leak? Klübersynth BEM 44-4600 offers you a semi-fluid grease based on high-viscosity synthetic hydrocarbon oil and a special lithium soap, which prevents those components from leaking due to its thixotropic behaviour.

Often those applications are located where maintenance is complicated and its reduction to a minimum is therefore desirable. Here, Klübersynth BEM 44-4600 offers you a long service life, functional reliability and significant cost reduction.

State-of-the-art additives ensure optimum resistance to oxidation, wear and corrosion. Klübersynth BEM 44-4600 is also very resistant to high temperatures.

Application

Your technical challenges may be found in general industrial equipment, machine tools, heavy industry equipment (mining and cement), robotics, chemical and agricultural machinery. Examples are:

- Crushers, vertical roller mills, hammer mills

- Mobile drilling equipment
- Cranes, e.g. harbour or mining
- Mixer and reactor drives
- Harvesting machines
- Conveyor belt drives

Application notes

You can apply Klübersynth BEM 44-4600 by an automatic lubrication system or via an automatic single-point lubrication system. If you wish to optimise the service life of your equipment or have any other questions regarding your application, our experts will be pleased to help you with application-specific advice.

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 44-4600
Can 1 kg	+
Bucket 25 kg	+
Drum 170 kg	+

Product data	Klübersynth BEM 44-4600
Article number	004319
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	special lithium soap
Lower service temperature	-50 °C / -58 °F



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Product data	Klübersynth BEM 44-4600
Upper service temperature	140 °C / 284 °F
Colour space	beige
Texture	homogeneous
Density at 20 °C	approx. 0.86 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	400 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	430 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 500 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 56 mm ² /s
Copper corrosion, ASTM D4048, (lubricating grease), 24h/100 °C	1 - 100 corrosion degree
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 51805-2, test temperature: -50 °C	<= 1 400 mbar
Drop point, DIN ISO 2176, IP 396	>= 180 °C
Four-ball tester, welding load, ASTM D 2596	>= 250 kgf
Four-ball tester, wear factor, based on ASTM D 2266, 75 °C, 1200 rpm, 40 kg, 60 min, wear scar diameter	<= 0.6 mm
FZG scuffing test, DIN ISO 14635-1, A/8.3/90, scuffing load stage	>= 13
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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