

Klübersynth BM 44-42

Special grease for actuators, rolling bearings and free-wheels



Your benefits at a glance

- Long-term grease for less maintenance and for-life lubrication
- Extensive range of applications due to wide service temperature range
- Longer component life due to optimised oil release and anti-wear additives

Your requirements - our solution

Trouble-free function of component across their entire lifetime without relubrication is a frequently encountered requirement of highly-developed applications such as Drive by Wire technology.

Klübersynth BM 44-42 offers both manufacturers and operators of such components and systems the matching solution for long-term lubrication.

Additionally, extreme requirements such as smooth operation at low temperatures and low-wear operation at high surrounding temperatures are to be met.

Klübersynth BM 44-42 offers a low start-up torque for trouble-free operation and enables energy savings.

Rolling bearings and other components can be operated at short-term peak temperatures without severely affecting the product's lubricity.

Should your application be subject to vibrations or higher loads, Klübersynth BM 44-42 can protect your component against premature failure and wear.

Its good sealing capacity and miscibility with conventional bearing lubricants makes Klübersynth BM 44-42 a versatile speciality lubricant for many applications.

Application

Klübersynth BM 44-42 is mostly used for the long-term lubrication of actuators and rolling bearings in automotive applications.

It was also developed for low-wear idling operation and reliable indexing of free-wheels and override clutches.

Klübersynth BM 44-42 shows good adhesion to the lubrication point, improving long-term lubrication especially in uncapped bearings or rotating outer rings.

Application notes

Klübersynth BM 44-42 can be applied by brush, spatula, grease gun or automatic metering equipment. Pumpability in automatic lubricating systems is subject to tests and prior consulting. Please ask our experts for details.

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 BM 44-42
Can 1 kg	+
Bucket 25 kg	+
Drum 170 kg	+

Product data	Klübersynth BM 44-42
Article number	004261
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	special lithium soap
Lower service temperature	-40 °C / -40 °F
Upper service temperature	140 °C / 284 °F
upper service temperatur (short-time)	approx. 180 °C



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Product data	Klübersynth BM 44-42
Colour space	beige
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	275 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	305 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 47 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 7.9 mm ² /s
Copper corrosion, DIN 51811, (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, test temperature: -40 °C	<= 1 400 mbar
Low-temperature torque, IP 186, -50 °C, start	<= 1 000 mNm
Low-temperature torque, IP 186, -50 °C, running	<= 100 mNm
Drop point, DIN ISO 2176	>= 250 °C
Speed factor (n x dm)	approx. 1 000 000 mm/min
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.	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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