

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 18 kg	+
Bucket 25 kg	+
Drum 170 kg	+

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Characteristics	Klübersynth BM 44-42
Article number	004261
Composition, thickener	lithium complex soap
Composition, type of oil	synthetic hydrocarbon oil
Colour space	beige
Service temperature, lower limit	-50 °C
Service temperature, upper limit	140 °C
Service temperature, upper limit, short-time	180 °C
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	275 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	305 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 7.9 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 47 mm ² /s
Copper corrosion, DIN 51811, 24 h, 100°C	1 - 100 - 24 corrosion degree
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Flow pressure, DIN 51805-2, -40°C	≤ 1400 mbar
Low temperature torque, IP 186, -50°C, running torque	≤ 100 mNm
Low temperature torque, IP 186, -50°C, starting torque	≤ 1000 mNm
Dropping point, DIN ISO 2176 / IP 396	≥ 250 °C
Speed factor (n x dm), equipment: high speed test rig, precision bearing 7008 / 27000 min ⁻¹ / max. axial load: 2000 N	approx. 1450000 mm/min
Water resistance, DIN 51807-1, 3 h, 90°C	≤ 1 - 90 rating
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 90 years.

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

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