

Klübersynth BL 42-42

Special grease for rolling bearings with elevated percentage of sliding friction



Your benefits at a glance

- Especially for applications with a high percentage of sliding friction, e.g. in roller bearings, due to the balanced oil separation
- Multiple uses due to wide service temperature range, enabling product streamlining
- · Reduction of operating costs due to very good long-term lubricity

Your requirements - our solution

Klübersynth BL 42-42 is based on a thermally stable ester oil and a special lithium soap. With this unique concept, Klübersynth BL 42-42 shows a balanced oil separation over a wide temperature range, which is required for the lubrication of large ball and roller bearings. The larger a bearing is, the more important is the grease's oil separation, but also the wetting behaviour of the base oil to ensure reliable function and a long bearing life. It is a specific characteristic of this special lithium soap that it releases enough oil for bearing lubrication even after long exposure to high temperatures up to 160 °C, followed by operation at low temperatures.

Application

Klübersynth BL 42-42 may be used for the lifetime lubrication of sealed or capped deep groove ball bearings as well as for roller bearings. The grease's service temperature range permits automotive applications.

Applications include

- pulley bearings in cars, guide rollers in belt drives
- electric motor bearings with lifetime lubrication, relubricated electric motor and generator bearings
- bearings with a rotating outer ring and a stationary inner ring, as are found in broad-drawing rollers or generators

Application notes

Klübersynth BL 42-42 can be applied by spatula, brush or grease gun. For application via centralised lubricating systems, pumpability should be checked with the manufacturer. The friction point can be cleaned using commercially available cleaning agents. If the equipment contains elastomer seals, their compatibility with Klübersynth BL 42-42 should be checked prior to series application. Please do not hesitate to consult our technical sales staff.

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 BL 42-42
Can 1 kg	+
Bucket 25 kg	+

Characteristics	Klübersynth BL 42-42
Article number	004264
Composition, thickener	lithium complex soap
Composition, type of oil	ester oil , synthetic hydrocarbon oil
Colour space	yellow



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Characteristics	Klübersynth BL 42-42
Texture	homogeneous
Service temperature, lower limit	-40 °C
Service temperature, upper limit	160 °C
Density, Klüber method: PN 024, 20°C	approx. 0.94 g/cm³
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	245 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	275 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , lower limit	3000 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , upper limit	6000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 7.6 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 48 mm²/s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Oil separation, ASTM D6184, based on standard, 30 h, 150°C	≤ 10 % by weight
Low temperature torque, IP 186, -40°C, running torque	≤ 100 mNm
Low temperature torque, IP 186, -40°C, starting torque	≤ 1000 mNm
Speed factor (n x dm)	≥ 1000000 mm/min
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	ed 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 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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