

Klübersynth BL 42-42

Special grease for rolling bearings with elevated percentage of sliding friction



Benefits for your application

- 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

Description

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	+

Klübersynth BL 42-42
004264
special lithium soap
synthetic hydrocarbon oil
ester oil
-40 °C / -40 °F
160 °C / 320 °F
yellow



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Product data	Klübersynth BL 42-42
Texture	homogeneous
Density at 20 °C	approx. 0.94 g/cm³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	245 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	275 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 48 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 7.6 mm²/s
Speed factor (n x dm)	approx. 1 000 000 mm/min
Shear viscosity at 25 °C, shear rate 300 s-1, equipment: rotational viscometer, lower limit value	3 000 mPas
Shear viscosity at 25°C, shear rate 300 s-1, equipment:rotational viscometer, upper limit value	6 000 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Oil separation, based on ASTM D 6184 [FTMS 791 C 321] after 30 h/150 °C	<= 10 % by weight
Low-temperature torque, IP 186, -40 °C, running	<= 100 mNm
Low-temperature torque, IP 186, -40 °C, start	<= 1 000 mNm
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.

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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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