

Klübersynth[®] BM 44-42

Special grease for freewheels, rolling bearings and linear guides

Benefits for your application

- Long-term grease for less maintenance and for-life lubrication
 - Extensive range of applications due to wide service temperature range
 - Low starting torque enables problem-free operation and energy savings also at low temperatures
 - Versatility of application due to good compatibility with sealing materials¹⁾ and other lubricants
 - Longer component life due to optimized oil release and antiwear additives
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Description

Klübersynth BM 44-42 is a synthetic grease with an excellent low-temperature-behavior. It also enables long-term lubrication at service temperatures* up to 140 °C, while peaks up to 180 °C are possible without severely affecting the product's lubricity.

Klübersynth BM 44-42 offers good adhesion to the lube point, which is particularly beneficial in the long-term lubrication of open bearings or bearings with a rotating outer ring.

Application

Klübersynth BM 44-42 was especially developed for low-wear idling operation and reliable indexing of freewheels and override clutches. The lubricated components are mostly rolling bearings, e.g. those used in cars.

Klübersynth BM 44-42 shows also good long-term lubrication in linear guides and ball screws, as are used over a wide temperature range e.g. in the automotive industry.

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.
¹⁾ Due to the many different compositions of the different elastomers and plastics, we recommend testing compatibility prior to series application.

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

1 kg can
25 kg bucket
170 kg drum

Material safety data sheets

Material safety data sheets can be downloaded or requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.



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Product data	Klübersynth® BM 44-42
Chemical composition	Synthetic hydrocarbon oil/ lithium special soap
Color	beige
Service temperature range*, [°C], approx.	- 40 to +140
Drop point, DIN ISO 2176, [°C]	≥ 250
Flow pressure at -40 °C, DIN 51 805, [mbar]	≤ 1400
Low-temperature torque acc. to IP 186 at -50 °C, Starting torque, [Nmm] Running torque, [Nmm]	< 1000 < 100
Worked penetration, DIN ISO 2137, at 25 °C, [0.1 mm]	275 - 305
Kinematic viscosity of the base oil, DIN 51 562, pt. 01, Ubbelohde at 40 °C, [mm ² /s], approx. at 100 °C, [mm ² /s], approx.	47 8
Speed factor** for deep groove ball bearings, n x d _m , [mm/min], approx.	1,000,000
Corrosion protection, DIN 51 802 (SKF-EMCOR), test duration: 1 week, distilled water, degree of corrosion	≤ 1
Copper corrosion, DIN 51 811, 24 h at 100°C, degree of corrosion	1 – 100
Water resistance, DIN 51 807 pt. 01, 3 h/90 °C, rating level	≤1 - 90

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

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