

Klübersynth BEH 42-232

Special grease for rolling bearings with wide service temperature range



Your benefits at a glance

- **Tried-and-tested lithium-based lubrication with innovative composition**
 - Longer relubrication intervals than with conventional lithium-based greases
 - Better pressure absorption capacity due to special EP additives reduces wear
 - Good compatibility with FKM elastomers
 - **Versatile uses**
 - Very wide service temperature grease – extraordinary for a lithium-based grease
 - High ageing and oxidation stability enable long component life
 - Optimised oil release reduces friction resistance and contributes to higher efficiency
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Your requirements - our solution

Your experience with lithium soap products has been very positive, which is why you would like to stick to this technology also in the face of increasing requirements. This kind of experience has also been the basis of the development of Klübersynth BEH 42-232. What's new in this product is the combination of a lithium complex soap with a special, fully synthetic base oil mixture consisting of ester and ether oils. Moreover, the carefully selected additives prevent premature material fatigue, enabling longer component life even at elevated temperatures and loads. With its wide service temperature range from -40 °C to +180 °C in combination with excellent wear and corrosion protection, Klübersynth BEH 42-232 is a high-performance grease for a wide range of challenging applications.

Application

Klübersynth BEH 42-232 was especially developed for the long-term or for-life lubrication of heavily loaded rolling bearings. Because of its performance characteristics proven on FAG FE8 and FAG FE9 rolling bearing testers, Klübersynth BEH 42-232 is preferably used in rolling bearing applications with both linear or point-to-point contact. Such for-life-lubricated rolling bearings are found e.g. in

- machines for agriculture and the building industry
- conveyors
- textile and paper making-machines

- wheel bearing applications

Application notes

Klübersynth BEH 42-232 can be applied by grease gun, brush or spatula. Pumpability via centralised lubricating systems should be checked with the system manufacturer prior to use. The friction point can be pre-cleaned using commercial cleaning agents.

Behaviour towards elastomers and plastics

Because of its innovative composition, Klübersynth BEH 42-232 shows particularly good compatibility with FKM elastomers as are frequently used for seals in rolling bearings subject to high temperatures.

However, we recommend checking compatibility with the material used especially prior to series application.

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.

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Pack sizes	Klübersynth BEH 42-232
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

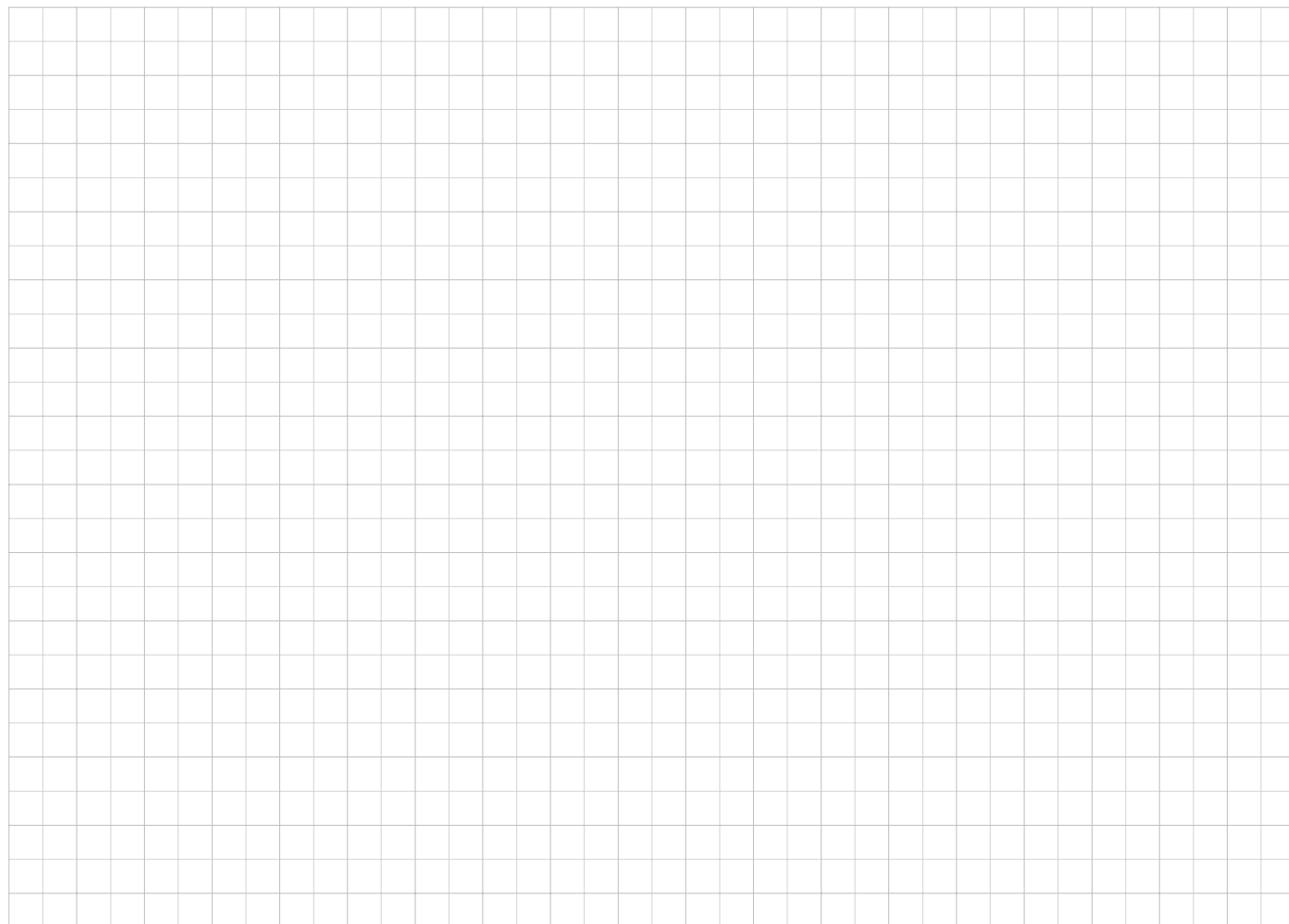
Product data	Klübersynth BEH 42-232
Article number	004333
Lubricating greases -K, DIN 51825 in connection with DIN 51502	KPE2R-40
Chemical composition, thickener	special lithium soap
Chemical composition, type of oil	ether oil
Chemical composition, type of oil	ester oil
Colour space	yellow
NLGI grade, DIN 51818	2
Lower service temperature	-40 °C / -40 °F
Upper service temperature	180 °C / 356 °F
Density at 20 °C	approx. 0.90 g/cm ³
Speed factor (n x dm)	approx. 600 000 mm/min
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 22.5 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 230 mm ² /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/150 °C	1 - 150 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 250 °C
Oil separation, based on ASTM D 6184 [FTMS 791 C 321] after 30 h/150 °C	<= 10 % by weight
Four-ball EP tester, wear factor, DIN 51350-5, 60 s/1000N, wear scar diameter	<= 1.8 mm
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 400 mbar
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.	36 months





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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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