

# Klübersynth BEP 72-82

Rolling bearing grease for long-term lubrication



## Benefits for your application

- Long service life of bearing due to special antiwear additives protecting against premature material fatigue as may be caused by vibrations, high temperatures and speeds
- Protects against corrosion damage due to excellent additives

## Description

Klübersynth BEP 72-82 is based on polyurea and ester oil. The special additives were chosen with a view to preventing premature bearing failure due to material fatigue, which often occurs at high temperatures combined with high speeds and vibrations. The service life of bearings is extended owing to the lubricant's excellent, long-term corrosion protection characteristics.

## Application

Klübersynth BEP 72-82 was especially developed for rolling bearings typically used in motor vehicles. Due to its performance characteristics Klübersynth BEP 72-82 can be used for the lifetime lubrication of many bearings, e.g. belt tensioner bearings (with rotating outer ring), clutch release bearings, viscous coupling bearings, drive shaft bearings, radiator fan bearings as well as deep groove ball bearings used in various types of electric motors and in all other bearings subject to high speeds and loads.

## Application notes

Klübersynth BEP 72-82 can be applied to the bearing by standard metering systems as well as by simple equipment such as brush, spatula or grease gun. Ideally, the bearing should be metallicity blank. The product is normally suitable for central lubricating systems. Please note, however, that due to different system configurations and application conditions the pumpability of the product has to be confirmed with the system manufacturer for each individual application. We will be pleased to provide assistance in this matter.

If an anticorrosive fluid has been applied prior to greasing, we recommend checking compatibility with the lubricant.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klübersynth BEP 72-82
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Product data	Klübersynth BEP 72-82
Article number	094092
Chemical composition, thickener	polyurea
Chemical composition, type of oil	ester oil
Lower service temperature	-40 °C / -40 °F
Upper service temperature	180 °C / 356 °F
Colour space	beige
Density at 20 °C	approx. 0.90 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	250 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	280 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 80 mm <sup>2</sup> /s



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Product data	Klübersynth BEP 72-82
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 11 mm <sup>2</sup> /s
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Corrosion inhibiting properties of lubricating greases, based on DIN 51802, SKF-EMCOR, test duration: 1 week, 5 % NaCl solution	<= 3 corrosion degree
Drop point, DIN ISO 2176	>= 250 °C
Speed factor (n x dm)	1 000 000 mm/min
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

## 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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