

# Klübersynth BH 72-422

High-temperature grease for slow-running bearings



## Your benefits at a glance

- Longer service life than with conventional ester-based greases as the lubricant contains PFPE oil that is extremely resistant to ageing
- Patented hybrid grease technology entails significantly lower consumption cost than with perfluorinated polyether greases
- Miscibility with all conventional grease types enables changeover without cleaning
- Low-density product for high volume yield compared to fully fluorinated lubricants

## Your requirements - our solution

Are you an OEM or operator using rolling bearings at temperatures above 160 °C? Would you like to have an innovative grease closing the "service temperature gap" between conventional, hydrocarbon-based and pure PFPE lubricants? Based on a patented formulation, we now offer Klübersynth BH 72-422, a synthetic high-temperature grease containing ester as well as perfluorinated polyether (PFPE) oils, and a PTFE thickener.

This grease shows good oil retention at high temperature and is thermally stable, which enables Klübersynth BH 72-422 to extend your relubrication intervals at operating temperatures above 160 °C up to 220 °C.

A special feature of Klübersynth BH 72-422 reducing costs is that its density is approx. 1/3 lower than that of PFPE-based lubricants, which results in a higher volume yield.

## Application

Among the many applications of Klübersynth BH 72-422 are rolling bearings and guideways running at low speeds, high permanent temperatures and high loads (max. 180 °C at C/P <8). These may be found in:

- Calender or felt-carrying rolls in the pulp and paper industry

- Machines in the wood-panel, rubber and plastics industries
- Drying cylinders

## Application notes

You can use Klübersynth BH 72-422 to relubricate rolling bearings without prior cleaning even if they have been running with pure PFPE/PTFE, ester, silicone or mineral oil greases. To ensure even better adhesion of the lubricant, it may be advisable to clean the friction point of anticorrosive agent prior to initial lubrication. If the anticorrosive layer is thin, however, cleaning is not necessary. We will be pleased to give advice on the optimisation of lubricant life.

## 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 BH 72-422
Cartridge 500 g	+
Can 600 g	+
Bucket 7 kg	+
Bucket 30 kg	+



# Klübersynth BH 72-422

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Product data	Klübersynth BH 72-422
Article number	094072
Chemical composition, thickener	polyurea
Chemical composition, type of oil	PFPE
Chemical composition, type of oil	ester oil
Lower service temperature	-20 °C / -4 °F
Upper service temperature	220 °C / 428 °F
Colour space	beige
Density at 20 °C	approx. 1.19 g/cm <sup>3</sup>
Base oil viscosity at 100 °C, calculated value	approx. 34 mm <sup>2</sup> /s
Base oil viscosity at 40 °C, calculated value	approx. 420 mm <sup>2</sup> /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C	<= 1 400 mbar
NLGI grade, DIN 51818	2
Drop point, DIN ISO 2176, IP 396	>= 250 °C
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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