

# Klübersynth BHP 72-102

High-temperature lubricant with extraordinary anticorrosion properties for lifetime lubrication



## Benefits for your application

- **Long availability of components over a wide service temperature range**
  - when exposed to corrosive atmosphere
  - when exposed to high vibrations and loads
- **High economic efficiency due to patented hybrid grease formulation**

## Description

Klübersynth BHP 72-102 is a synthetic long-term lubricating grease with a patented formulation based on ester oils and perfluorinated polyether oil (PFPE). Its outstanding characteristics are good oil retention at high permanent temperatures and good corrosion protection as well as water resistance - yet another contribution to a longer bearing life and a higher thermal stability compared to conventional lubricants. In tests performed on component test rigs subject to high permanent temperatures up to 200 °C Klübersynth BHP 72-102 offers an extremely long service life.

forms a stable grease collar that serves as a lubricant reservoir resistant to vibration and at the same time helps to protect the bearings against contaminants.

## Application notes

Klübersynth BHP 72-102 can be applied by standard metering systems (brush, spatula, grease gun). Ideally, the bearing should be metallically blank. If any anticorrosive fluid has been applied prior to greasing, we recommend checking compatibility with the lubricant.

## Application

Klübersynth BHP 72-102 has been designed for the lifetime lubrication of rolling bearings subject to high loads and alternating temperatures ranging from -40 °C to 200 °C. The product is suitable for the lubrication highly loaded rolling bearings in components close to automobile engines, e.g. bearings viscocouplings, belt tensioners, water pumps, fans, servomotors and similar applications. Klübersynth BHP 72-102

## 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 BHP 72-102
Bucket 20 kg	+

  

Product data	Klübersynth BHP 72-102
Article number	094102
Chemical composition, thickener	polyurea
Chemical composition, type of oil	PFPE
Chemical composition, type of oil	ester oil
Chemical composition, solid lubricant	PTFE
Lower service temperature	-40 °C / -40 °F
Upper service temperature	200 °C / 392 °F
Colour space	white
Density at 20 °C	approx. 1.30 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	240 x 0.1 mm



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Product data	Klübersynth BHP 72-102
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	270 x 0.1 mm
Base oil viscosity at 40 °C, calculated value	approx. 130 mm <sup>2</sup> /s
Base oil viscosity at 100 °C, calculated value	approx. 20 mm <sup>2</sup> /s
Speed factor (n x dm)	approx. 1 000 000 mm/min
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	4 000 mPas
Shear viscosity at 25°C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer, upper limit value	8 000 mPas
Corrosion inhibiting properties of lubricating greases, based on DIN 51802, SKF-EMCOR, test duration: 1 week, 3 % NaCl solution	<= 3 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 240 °C
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 400 mbar
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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