

# Klübersynth BHP 72-102

High-temperature lubricant with extraordinary anticorrosion properties for lifetime lubrication



## Your benefits at a glance

- 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 innovative hybrid grease formulation

## Your requirements - our solution

Klübersynth BHP 72-102 is an innovative, synthetic long-term lubricating grease 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.

## 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 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.

## 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
Cartridge 500 g	+
Can 600 g	+
Can 1,2 kg	+
Bucket 7 kg	+
Bucket 20 kg	+

  

Characteristics	Klübersynth BHP 72-102
Article number	094102
Composition, solid lubricant	PTFE

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Characteristics	Klübersynth BHP 72-102
Composition, thickener	polyurea
Composition, type of oil	ester oil , PFPE
Colour space	white
Service temperature, lower limit	-40 °C
Service temperature, upper limit	200 °C
Density, Klüber method: PN 024, 20°C	approx. 1.3 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	240 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	270 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , lower limit	4000 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , upper limit	8000 mPas
Kinematic viscosity of the base oil, 100°C, calculated data	approx. 20 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, 40°C, calculated data	approx. 130 mm <sup>2</sup> /s
Copper corrosion, DIN 51811, 24 h, 100°C	1 - 100 - 24 corrosion degree
SKF-EMCOR, DIN 51802, based on standard, Klüber method: 3 % NaCl solution, 168 h	≤ 3 corrosion degree
Flow pressure, DIN 51805-2, -40°C	≤ 1400 mbar
Dropping point, DIN ISO 2176 / IP 396	≥ 240 °C
Speed factor (n x dm)	approx. 1000000 mm/min
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 90 years.

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