

# 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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|---|--------------------------------|
| 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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