

Klüberalfa BHR 53-402

High-temperature long-term lubricating grease



Your benefits at a glance

- Higher equipment availability and reduced maintenance at very high operating temperatures up to 260 °C
 - due to good corrosion protection
 - due to improved wear protection
- Cost-efficient and eco-friendly product
 - due to lifetime lubrication
 - as equipment can be cleaned without use of fluorine-containing solvent

Your requirements - our solution

You are looking for a rolling bearing grease offering good corrosion and wear protection for use also at high temperatures?

Klüberalfa BHR 53-402 is a high-temperature long-term grease based on perfluorinated polyether oils. Due to its special thickener, it can be removed from components without the use of fluorine-containing solvents.

Klüberalfa BHR 53-402 is neutral towards plastics and elastomers and can thus be used with a variety of materials.

Application

Preferred applications are in rolling bearings with lifetime or long-term lubrication which are subject to very high temperatures:

- conveyor systems, e.g. load, guide or return rollers and crossbar plain bearings
- ceramics or brick manufacturing, e.g. bearings of kiln carts (carrying wheels)
- electric motors, fans

General behaviour towards elastomers and plastics

Greases based on perfluorinated polyether oils are generally regarded as neutral towards elastomers and plastics (possible

exception: highly fluorinated rubber). Nevertheless we recommend testing compatibility with the material to be used, especially prior to series application.

Application notes

Klüberalfa BHR 53-402 can be applied with a grease metering gun or automatic metering devices for small quantities.

Anticorrosion agents have to be removed from the friction points prior to initial lubrication to ensure optimum lubricant adhesion. Klüberalfa BHR 53-402 can be mixed with lubricants based on PFPE.

Klüberalfa BHR 53-402 (e.g. used grease in rolling bearings) can be removed with water-miscible neutral cleaning agents.

If you wish to optimise equipment life or have any other queries regarding product application, our experts will be pleased to advise you.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberalfa BHR 53-402
Cartridge 800 g	+
Can 1 kg	+
Bucket 10 kg	+

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Characteristics	Klüberalfa BHR 53-402
Article number	090070
Composition, thickener	natrium soap
Composition, type of oil	PFPE
Colour space	white
Service temperature, lower limit	-40 °C
Service temperature, upper limit	260 °C
Density, Klüber method: PN 024, 20°C	approx. 1.82 g/cm ³
NLGI grade, DIN 51818	2
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 40 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 420 mm ² /s
Flow pressure, DIN 51805-2, -40°C	≤ 1400 mbar
Speed factor (n x dm)	approx. 300000 mm/min
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 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 95 years.

Klüber Lubrication München GmbH & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.

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