

# Klübertherm HB 88-182

Rolling bearing grease for high loads and temperatures



## Your benefits at a glance

- Lubricating grease suited to the requirements of high-temperature applications of up to 180 °C without residue formation in bearings or pipes
- Closes the gap between high-temperature greases based on PFPE oils and standard ester oil-based greases
- Low-density product for high volume yield, leading to lower consumption costs compared to fully fluorinated lubricants
- Sustainable: Better degradability in the environment than PFPE-based products

## Your requirements - our solution

As a manufacturer or operator of production equipment, you would like to lubricate the various rolling bearings in your equipment with one single grease for all service temperatures, which not only facilitates your work processes for initial and relubrication, but also prevents product mix-up. Klübertherm HB 88-182 is a versatile long-term grease offering good corrosion and wear protection for rolling bearings subject to high loads and medium speeds at temperatures of up to 180 °C. While many lubricants disintegrate when subject to high temperature and humidity, Klübertherm HB 88-182 is resistant to hydrolysis. These positive characteristics enable you to optimise lubrication intervals and to protect your components against premature failure. The density of Klübertherm HB 88-182 is only about half as that of PFPE-based lubricants normally used in this temperature range, enabling cost savings. Its lower shear viscosity offers potential for energy savings.

## Application

Applications include the long-term lubrication of rolling bearings subject to high temperatures and loads.

Klübertherm HB 88-182 offers you even more and by buying a single grease, you will obtain a variety of strong benefits for applications under highly varied conditions and bearing designs. These include:

- Rolling bearing applications in corrugating machines, rotary unions, generator bearings, conveyors, hydraulic couplings, smoke extractor motors, and ceramic ovens
- Lifetime lubrication of cylindrical roller bearings with a high percentage of sliding friction
- Sealing systems in the automotive industry

## Application notes

Notes for your application: Klübertherm HB 88-182 is applicable by grease guns, also at high temperatures, without clogging lines or forming solid residues which damage your bearings. It is advisable to clean new bearings to remove anticorrosive agents prior to initial lubrication to facilitate good lubricant adhesion. No cleaning is required in case of thin film anticorrosive coatings. We will be pleased to provide guidance 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	Klübertherm HB 88-182
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+

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Product data	Klübertherm HB 88-182
Article number	093006
NLGI grade, DIN 51818	2
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	PTFE
Lower service temperature	-30 °C / -22 °F
Upper service temperature	180 °C / 356 °F
Colour space	beige
Density at 20 °C	approx. 1.12 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 180 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 19.5 mm <sup>2</sup> /s
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
Copper corrosion, DIN 51811, (lubricating grease), 24h/150 °C	1 - 150 corrosion degree
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
Speed factor (n x dm)	approx. 300 000 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





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## 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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