

Klübersynth DB 2 oil series

Synthetic impregnating oils for sintered metal plain bearings



Benefits for your application

- **Longer service life due to good ageing resistance**
 - **Wide range of application due to high thermal stability**
 - **Smooth running oils**
 - **Individual range of applications due to several oil viscosities**
 - **High reliability and maintenance-free application due to lifetime lubrication**
 - **Individual range of applications due to good corrosion protection**
-

Description

Klübersynth DB 2 oils are synthetic lubricants based on a mixture of ester oil and synthetic hydrocarbons. No raw materials containing silicone are used. With their additives and their particular composition, these oils have been developed for a wide temperature range from very low to very high temperatures. Besides offering good corrosion protection, Klübersynth DB 2 oils are particularly suitable for the lifetime lubrication of sintered metal plain bearings.

Klübersynth DB 2-68 is used, the lubricant can be made visible by means of a UV lamp. For longer bearing life, the ready-to-use product MIKROZELLA GDB 2 containing a base oil with a corresponding viscosity can be applied to the outer surface of the bearing by means of conventional, fully automatic metering systems. Prior to series application, we recommend checking metering on the metering system to be used under practice conditions.

Application

Klübersynth DB 2 oils were developed for the lubrication of sintered metal plain bearings in precision engineering, automotive engineering, electrical and household engineering.

Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry, frost-free place.

Application notes

The pores of the sintered metal plain bearing are filled with Klübersynth DB 2 oils in a vacuum immersion process. If

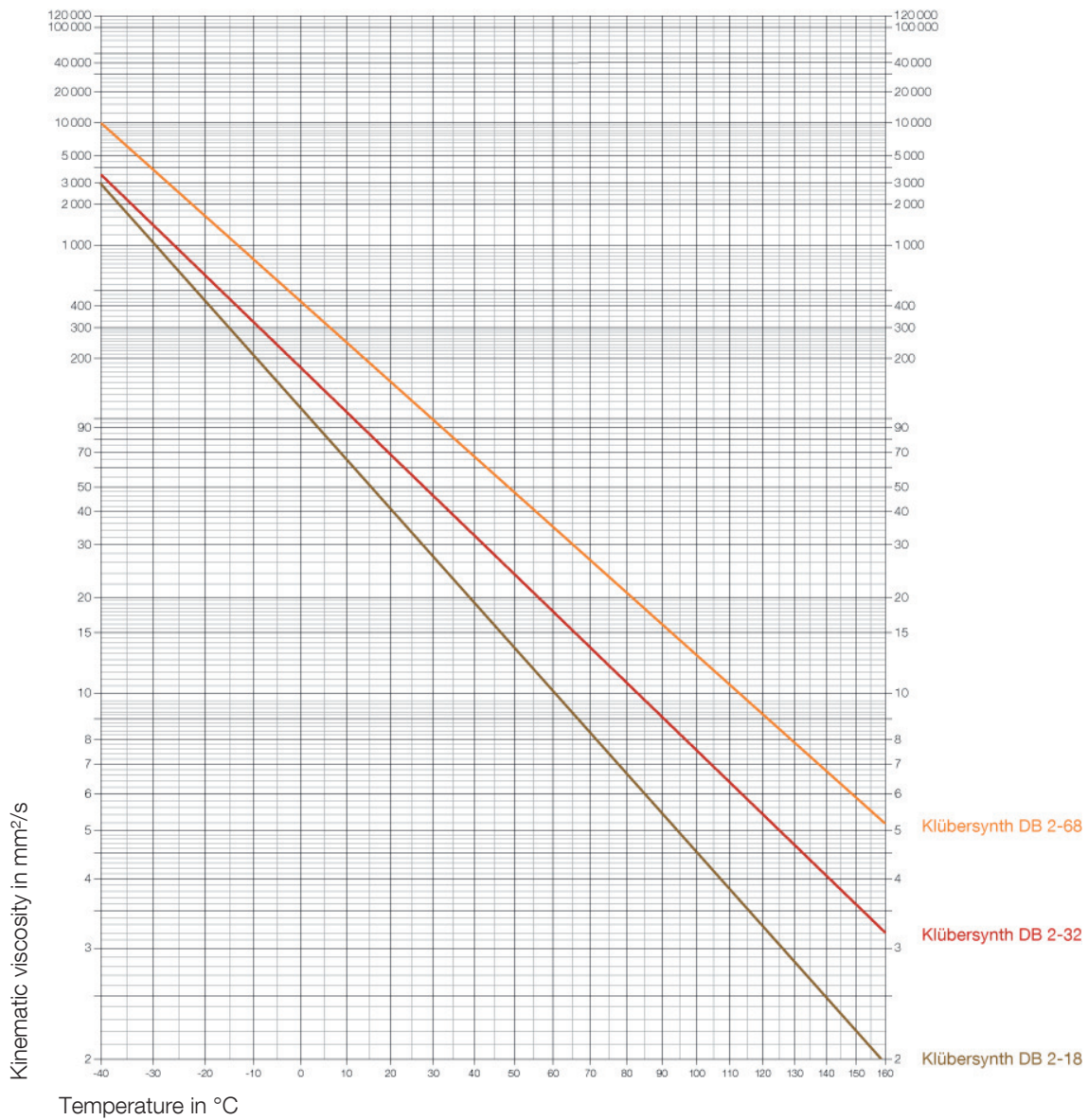
Material safety data sheets

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

Klübersynth DB 2 oil series

Synthetic impregnating oils for sintered metal plain bearings

Viscosity Temperature Diagram





Pack sizes	Klübersynth DB 2- 18	Klübersynth DB 2- 32	Klübersynth DB 2- 68
Canister 20 l	+	+	+
Drum 200 l	+	+	+

Product data	Klübersynth DB 2- 18	Klübersynth DB 2- 32	Klübersynth DB 2- 68
Article number	028090	028082	028077
Upper service temperature	150 °C / 302 °F	150 °C / 302 °F	150 °C / 302 °F
Lower service temperature	-45 °C / -49 °F	-45 °C / -49 °F	-40 °C / -40 °F
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 4.5 mm ² /s	approx. 7.5 mm ² /s	approx. 13 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 18 mm ² /s	approx. 32 mm ² /s	approx. 68 mm ² /s
Viscosity index, DIN ISO 2909	>= 100		>= 200
Density, DIN 51757, 20 °C	approx. 0.91 g/cm ³	approx. 0.91 g/cm ³	approx. 0.92 g/cm ³
Refraction index, DIN 51423 pt. 02, at 20 °C	approx. 1.455 nD20	approx. 1.457 nD20	approx. 1.46 nD20
Pour point, DIN ISO 3016	<= -45 °C		<= -45 °C
ISO viscosity grade, DIN ISO 3448		32	68
Chemical composition, type of oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil
Chemical composition, type of oil	ester oil	ester oil	ester oil
Colour space	brown	brown	brown



Klübersynth DB 2 oil series

Synthetic impregnating oils for sintered metal plain bearings



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.

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

The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München KG and if source is indicated and voucher copy is forwarded.



a company of the Freudenberg Group