

# Klübersynth DB 2

Synthetic impregnating oils for sintered metal plain bearings



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## Your benefits at a glance

- 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
  - Versatile uses due to good corrosion protection
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## Your requirements - our solution

Klübersynth DB 2 oils are synthetic lubricants based on a mixture of ester oil and synthetic hydrocarbons. They are intended for use in both low and high-temperature applications. Silicone is not used in the formulation of the products. With their additives and their particular composition, these oils can be used in a wide temperature range. The excellent anticorrosive effect of Klübersynth DB 2 oils enables trouble-free operation of both iron and bronze bearings.

## Application

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

## Application notes

The pores of sintered metal plain bearings are filled with Klübersynth DB 2 oils by means of vacuum immersion.

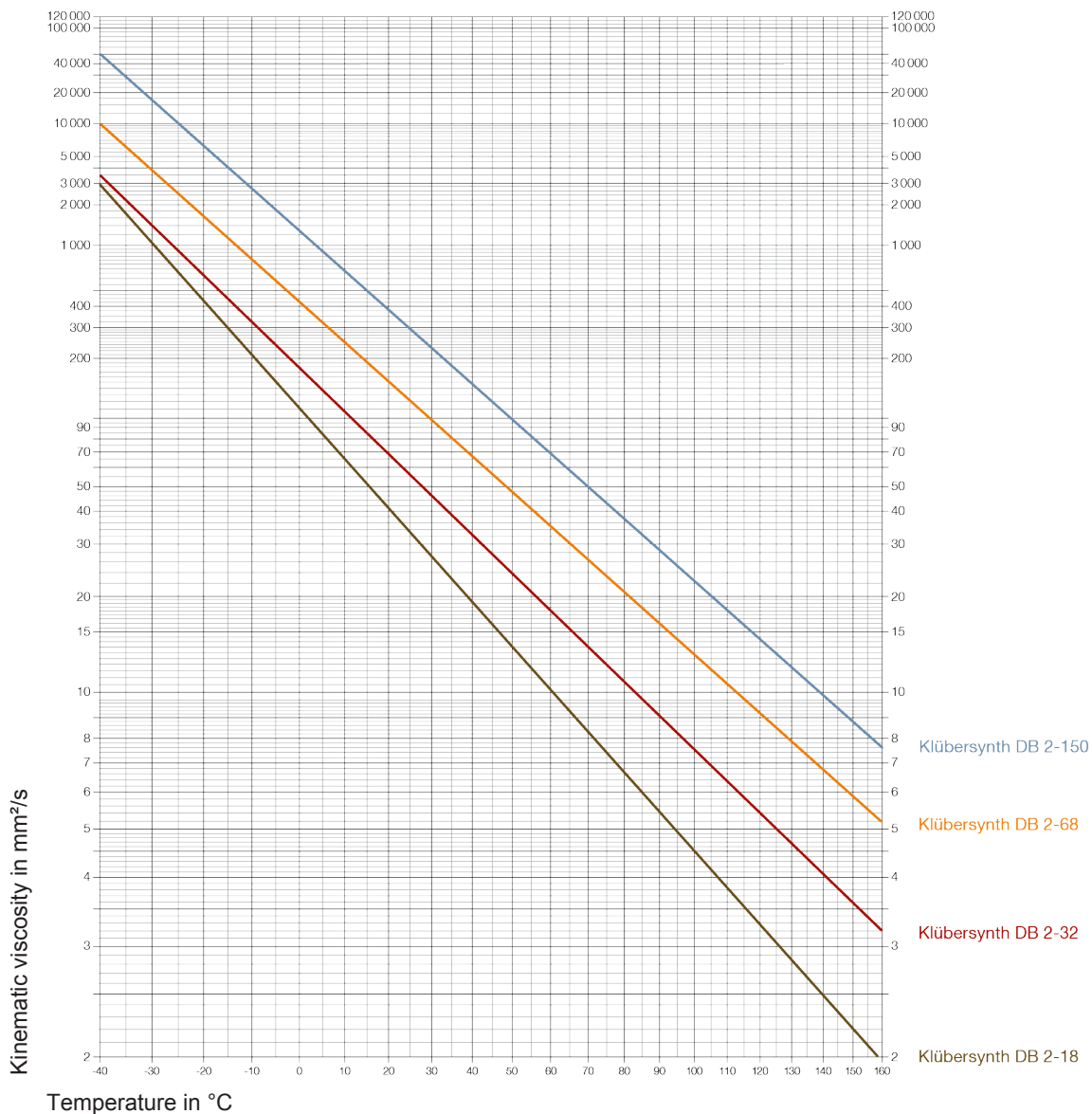
## Material safety data sheets

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.

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## 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
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
Lower service temperature	-45 °C / -49 °F	-45 °C / -49 °F	-40 °C / -40 °F
Upper service temperature	150 °C / 302 °F	150 °C / 302 °F	150 °C / 302 °F
Colour space	brown	brown	brown
Density, DIN 51757, 20 °C	approx. 0.91 g/cm <sup>3</sup>	approx. 0.91 g/cm <sup>3</sup>	approx. 0.92 g/cm <sup>3</sup>
ISO viscosity grade, DIN ISO 3448		32	68
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 18 mm <sup>2</sup> /s	approx. 32 mm <sup>2</sup> /s	approx. 68 mm <sup>2</sup> /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 4.5 mm <sup>2</sup> /s	approx. 7.5 mm <sup>2</sup> /s	approx. 13 mm <sup>2</sup> /s
Pour point, DIN ISO 3016	<= -45 °C		<= -45 °C
Refraction index, DIN 51423 pt. 02, at 20 °C	approx. 1.455	approx. 1.457	approx. 1.46
Viscosity index, DIN ISO 2909	>= 100		>= 200
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	36 months	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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