

CONSTANT GL 2000

Impregnating fluid for sintered metal plain bearings



Benefits for your application

- Low noise and smooth running
- Longer bearing life due to good oxidation resistance
- Energy savings and improved efficiency due to low frictional torque
- Improved ageing stability owing to less internally generated heat at high speeds
- Lifetime lubrication with high reliability; maintenance-free solution

Description

CONSTANT GL 2000 is an impregnating fluid based on mineral oil for the low-noise lubrication of sintered metal plain bearings subject to high and low temperatures, speeds (e.g. <math><0.3\text{ m/s}</math>, >5 m/s) and loads (e.g. <math><0.15\text{ N/mm}^2</math>, >3 N/mm²). Due to the special product formulation and additives it covers a wide range of applications. Its soap content provides low-noise properties and good wear protection. CONSTANT GL 2000 can also be used for the lifetime lubrication of sintered metal plain bearings, also at stop and go.

Application

CONSTANT GL 2000 is intended for use in sintered metal plain bearings in precision, automotive and electrical engineering as well as household appliances.

Application notes

CONSTANT GL 2000 is applied in a vacuum immersion process to fill the pores of sintered metal plain bearings. We recommend to stir the immersion bath prior to immersion. Avoid filtering through very fine mesh size. To extend the service life of the bearings, an additional ready-to-use lubricant, MIKROZELLA G8 OY K can be applied around the bearing as a plastic oil reservoir by means of conventional fully automatic metering systems. We recommend checking application by the metering system under practical conditions prior to series application.

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	CONSTANT GL 2000
Canister 20 l	+
Drum 200 l	+

Product data	CONSTANT GL 2000
Article number	028048
Chemical composition, type of oil	mineral oil
Chemical composition, thickener	lithium soap
Lower service temperature	-10 °C / 14 °F
Upper service temperature	100 °C / 212 °F
Colour space	brown
Texture	homogeneous
Texture	viscous
Density, DIN 51757, 20 °C	approx. 0.88 g/cm ³
Refraction index, DIN 51423 pt. 02, at 20 °C	approx. 1.479



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Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 46 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 7 mm ² /s
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	12 months

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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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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.

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