

Klüberfluid B-F 1 Ultra

Running-in lubricant for open drives



Benefits for your application

- Running-in and corrective lubricant for open drives with splash or circulation lubrication
- Free from heavy metals, solvents, bitumen, and chlorine
- Easy application
- Controlled wear for tooth face correction

Description

Klüberfluid B-F 1 Ultra is a mineral oil based aluminium stearate saponified running-in lubricant especially designed for splash or circular lubrication. A specific combination of additives including special graphite allows controlled running-in of new, or smoothening of damaged, tooth profiles while protecting the remaining tooth faces. The longer this lubricant is applied the less wear occurs.

Klüberfluid B-F 1 Ultra is a non-Newtonian fluid free from bitumen, solvents, heavy metals, and chlorine.

In accordance with AGMA 251.02, Klüberfluid B-F 1 Ultra is classified among the "Special Compounds" (sect. 3.4). The specifications of table 6, "Extreme Pressure Gear Lubricants", are fully satisfied.

Application

Klüberfluid B-F 1 Ultra is used in the splash, paddle wheel or circulation lubrication of open gears for running-in lubrication or tooth profile correction.

Possible uses are limited neither by component size nor by driving power. The peripheral speed should not exceed 8.5 m/s. Drives of this kind are mainly used in rotary kilns, tube mills, and similar machines as are used in the cement, lime, gypsum, mining and chemical industries. Klüberfluid B-F 1 Ultra is not suitable for the lubrication of (rolling or sliding) bearings.

Application notes

Klüberfluid B-F 1 Ultra can either be filled into the immersion bath so that lubrication is done by direct transfer of the lubricant to the tooth faces or if you have the circular lubrication system Klübermatic PA the lubricant is force-pumped onto the tooth faces.

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	Klüberfluid B-F 1 Ultra
Bucket 25 kg	+
Drum 180 kg	+

Product data	Klüberfluid B-F 1 Ultra
Article number	039073
Colour space	black
Texture	homogeneous
Texture	fluid
Density at 20 °C	approx. 1.01 g/cm ³
Worked penetration, acc. to Klein, 25 °C, lower limit value	470 x 0.1 mm
Worked penetration, acc. to Klein, 25 °C, upper limit value	530 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 1 300 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 60 mm ² /s



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Product data	Klüberfluid B-F 1 Ultra
Application by immersion bath	0 - 100 °C
Application in circulation lubrication systems	10 - 80 °C
Functional lubricant film	approx. - 30 °C
Thermal stability of the lubricating film	approx. 200 °C
FZG scuffing test, based on DIN ISO 14635, A/2,76/50, change in weight	approx. 1 mg/kWh
FZG scuffing test, based on DIN ISO 14635, A/2,76/50, scuffing load stage	>= 12
Four-ball tester, welding load, DIN 51350 pt. 04	>= 7 500 N
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 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 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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