

Klüberfluid B-F 2 Ultra

Light-coloured running-in and correction lubricant for open gear rim/pinion drives



Your benefits at a glance

- Eco-friendly: free of bitumen and raw materials containing solvents, heavy metal or chlorine
- Easy handling: controlled wear for tooth flank correction
- Transparent, thin lubricant film, contains UV indicator for inspection
- Clean appearance, hence better acceptance by users

Your requirements - our solution

Klüberfluid B-F 2 Ultra is a mineral-oil-based running-in and correction lubricant especially developed for immersion, circulation or spray lubrication. It contains special additives and surface-smoothing solid particles enhancing the running-in process, i.e. physical/mechanical material removal on new tooth flanks. In the same way, the tooth flanks of drives already in use for some time can be smoothened (correction lubrication).

Klüberfluid B-F 2 Ultra is a fluid grease that is free of bitumen and raw materials containing solvents, heavy metals or chlorine.

Application

Klüberfluid B-F 2 Ultra is used for the running-in lubrication of new, open drives by means of immersion, transfer, circulation and spray lubrication, or for tooth flank correction of large gear drives that have been in use for some time.

The use of Klüberfluid B-F 2 Ultra is not subject to any limitations regarding the size or power of the drives. A peripheral speed of 8.5 m/s should not be exceeded. Such drives are primarily to be found in rotary kilns, tubular mills and similar machinery in the cement, lime, gypsum and chemical industries and the mining sector. Klüberfluid B-F 2 Ultra must not be used for plain or rolling bearings.

Application notes

In immersion lubrication, Klüberfluid B-F 2 Ultra is taken up directly by the tooth flanks as they pass through the oil bath (forced lubrication, immersion depth max. half the tooth depth). If the drive is fitted with a circulation lubrication system, the lubricant will reach the tooth flanks through a lubricant pump and filters.

If Klüberfluid B-F 2 Ultra is applied by automatic spray systems, lubrication is permanent or nearly permanent (very short spray intervals).

Besides these lubrication methods, manual application by hand-held lubrication equipment or brush is also possible.

The specific lubricant quantities as well as the total quantity can be taken from diagrams (contained in Klüber brochure "Lubrication of large gear drives", page 22).

Please stir Klüberfluid B-F 2 Ultra thoroughly before use as oil may separate off at the surface during storage in the closed or open container. Any oil separation at the surface will not affect the usability and effect of the product

NOTE: This lubricant must not be used as an operational lubricant!

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 2 Ultra
Bucket 25 kg	+
Drum 180 kg	+

Klüberfluid B-F 2 Ultra

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Characteristics	Klüberfluid B-F 2 Ultra
Article number	039098
Appearance	milky
Colour space	yellow
Texture	fluid , homogeneous
Application, by immersion	0 - 100 °C
Application, in automatic spray systems	-5 - 100 °C
Application, in circulation lubrication systems	-10 - 100 °C
Service temperature, lower limit	-30 °C
Service temperature, upper limit	200 °C
Density, Klüber method: PN 024, 20°C	approx. 1.00 g/cm³
Worked penetration, Klein, 25°C, lower limit	550 0.1 mm
Worked penetration, Klein, 25°C, upper limit	700 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 31.4 mm²/s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 490 mm²/s
Viscosity index, DIN ISO 2909, base oil	approx. 95
Four-ball tester, welding load, DIN 51350-4	≥ 7500 N
FZG scuffing test, DIN ISO 14635-3, based on standard, A / 2.8 / 50, change of weight	approx. 0.5 mg/kWh
FZG scuffing test, DIN ISO 14635-3, based on standard, A / 2.8 / 50, failure load stage	> 12
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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 95 years.

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