

Klüberfluid® B-F 2 Ultra

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

Benefits for your application

- **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**

Description

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 smoothed (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 (e.g.

Klübermatic PA), 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 (Klübermatic KD) 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.

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

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

25 kg tinplate bucket
180 kg removable head drum

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.



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

Product data	Klüberfluid B-F 2 Ultra
Color, aspect	yellow, milky
Texture	homogeneous, fluid
Density at 20 °C, [g/cm ³]	1
Base oil viscosity, DIN 51562, at 40 °C, [mm ² /s], approx. 100 °C, [mm ² /s], approx.	490 31
Viscosity index VI, DIN ISO 2909, approx.	95
Cone penetration of lubricating greases, acc. to Klein, Worked penetration at 25 °C, [0.1 mm]	550 - 700
FZG special test A/2.76/50, ISO 14635-1 Scuffing load stage Specific loss in weight, [mg/kWh], approx.	> 12 0.5
Four-ball wear test, welding load, DIN 51350 pt. 04, [N]	≥ 7500
Service temperature range*, [°C], approx. Thermal resistance depends on relubrication	-30 to 200
Application by automatic spray systems, [°C]	from -5 to 100
Application by immersion, [°C]	0 to 100
Application by circulation lubrication systems, [°C]	-10 to 100

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

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