

# Klüberfluid B-F 2 Ultra

Light-coloured 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

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](http://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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Product data	Klüberfluid B-F 2 Ultra
Article number	039098
Lower service temperature	-30 °C / -22 °F
Upper service temperature	200 °C / 392 °F
Colour space	yellow
Appearance	milky
Texture	homogeneous
Texture	fluid
Density at 20 °C	approx. 1.00 g/cm <sup>3</sup>
Worked penetration, acc. to Klein, 25 °C, lower limit value	550 x 0.1 mm
Worked penetration, acc. to Klein, 25 °C, upper limit value	700 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 490 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 31.4 mm <sup>2</sup> /s
Viscosity index, DIN ISO 2909, base oil	approx. 95
Application in automatic spray systems	-5 - 100 °C
Application by immersion bath	0 - 100 °C
Application in circulation lubrication systems	-10 - 100 °C
FZG scuffing test, based on DIN ISO 14635, A/2.76/50, change in weight	approx. 0.5 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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