Klüberfluid C-F 1 Ultra

Operational lubricant for open drives

Benefits for your application

- **Service lubricant for open drives with splash or circular lubrication**
- **Suitable for low operating temperatures (-15 °C)**
- **Free from heavy metals, solvents, bitumen, and chlorine**
- **Easy application**
- **Optimum tooth face protection**

Description

Klüberfluid C-F 1 Ultra is a mineral oil based aluminium stearate saponified service lubricant especially designed for splash or circular lubrication. It contains special graphite as a solid lubricant, is highly resistant to pressure, and contains anti-wear additives as well as corrosion inhibitors. This lubricant can be used down to temperatures of -15 °C.

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

In accordance with AGMA 251.02, Klüberfluid C-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 C-F 1 ULTRA is used for splash, paddle wheel or circular lubrication of open gears.

Possible uses are limited neither by component size nor by driving power. The peripheral speed should not exceed 8.5 m/s. Combined gear and bearing lubrication is not allowed. 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.

Application notes

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

Product data	Klüberfluid C-F 1 Ultra
Article number	039074
Colour space	black
Texture	homogeneous
Texture	fluid
Density at 20 °C	approx. 0.97 g/cm³
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 250 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 20 mm²/s

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Product data	Klüberfluid C-F 1 Ultra
Application by immersion bath	-15 - 60 °C
Application in circulation lubrication systems	5 - 60 °C
Functional lubricant film	<= -40 °C
FZG scuffing test, based on DIN ISO 14635, A/2.76/50, change in weight	<= 0.2 mg/kWh
FZG scuffing test, based on DIN ISO 14635, A/2,76/50, scuffing load stage	> 12
Thermal stability of the lubricating film	150 °C
Viscosity index, DIN ISO 2909, base oil	approx. 90
Four-ball tester, welding load, DIN 51350 pt. 04	>= 4 800 N
Worked penetration, acc. to Klein, 25 °C, upper limit value	770 x 0.1 mm
Worked penetration, acc. to Klein, 25 °C, lower limit value	630 x 0.1 mm
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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