

Klüberfluid C-F 4 ULTRA

Operational lubricant for large girth gear drives



Description

Klüberfluid C-F 4 ULTRA is a newly developed lubricant especially for the lubrication of medium-size to large girth gear drives. It is based on a mixture of synthetic hydrocarbons and mineral oil.

Klüberfluid C-F 4 ULTRA provides good adhesion, resistance to high pressure and wear protection. It is suitable for use at component temperatures up to 110 °C.

Klüberfluid C-F 4 ULTRA is free from bitumen, solvents, heavy metals, chlorine and solid lubricants.

Klüberfluid C-F 4 ULTRA corresponds to ANSI/AGMA 9005-E02 annex D-1.

Application

Klüberfluid C-F 4 ULTRA can be applied by immersion, transfer paddle wheel, pressure fed circulation and total loss spray lubrication systems. It can be used with all gear sizes and power ratings. A peripheral speed of 7 m/s should however not be exceeded.

Such drives are found in rotary kilns, tube mills, drums and similar machinery used in the cement, lime, gypsum, mining and chemical industries as well as in power stations. It can also be used for medium-size to large girth gear drives in sugar and paper production as well as in the marine and offshore sector.

Application notes

When applied by immersion, Klüberfluid C-F 4 ULTRA is directly transferred onto the tooth flanks. The Klübermatic PA circulation lubrication system can also be employed to re-circulate the lubricant under pressure onto the tooth flanks.

Klüberfluid C-F 4 ULTRA may also be applied via other customary spray systems. Please consult Klüber Lubrication München KG, dept. MA-LSS, phone 0 89-78 76-0 for information on their suitability.

The lubricant film on the tooth flanks can be made visible by using a UV lamp of at least 366 nm.

Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry place; the container should not be exposed to direct sunlight.

Pack size

25 and 50 kg bucket
180 kg drum

Klüberfluid C-F 4 ULTRA

- Operational lubricant for open gear drives incorporating immersion, circulation or spray lubrication systems
- For normal to elevated component temperatures up to 110 °C
- Free from heavy metals, chlorine, solvents, bitumen and solids
- Easy application
- Optimum wear and tooth flank protection
- Low maintenance, lower disposal costs
- Light-coloured, transparent product

Current material safety data sheets can be downloaded from our website www.klueber.com or requested from Klüber Lubrication.

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Product data

Colour	brown
Texture	homogeneous, viscous
Density (20 °C) DIN 51 757, g/cm ³ , approx.	0.93
Kinematic viscosity, DIN 51 562, pt. 1 20 °C, mm ² /s, approx. 40 °C, mm ² /s, approx. 100 °C, mm ² /s, approx.	13 500 3 100 165
Viscosity index (VI), DIN ISO 2909, approx.	155
Four-ball tester welding load DIN 51 350, pt. 3, N	≥ 7 000
FZG standard test A 8.3/90 °C, DIN 51 354, pt. 2 scuffing load stage specific loss in weight, mg/kWh	> 12 < 0.2
Application by immersion, °C	0 to 110
Application via circulation lubrication equipment, °C	0 to 80
Application via automatic spray systems, °C	0 to 80
Functional lubricant film, °C	down to approx. – 30
Resistance to thermal loads, °C	up to 110
Flash point, DIN ISO 2592, °C	> 200
Pour point, DIN ISO 3016, °C	< – 5

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



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