

Klüberfluid C-F 3 ULTRA

Operational lubricant for large girth gear drives



Description

Klüberfluid C-F 3 ULTRA is a lubricant of a new generation, developed specifically for the lubrication of medium-size to large girth gear drives. It is based on synthetic hydrocarbons and mineral oil. It provides good adhesion, excellent resistance to high pressure and protection against wear. This product is suitable for use at component temperatures up to 120°C.

Klüberfluid C-F 3 ULTRA is free from bitumen, solvents, heavy metals, chlorine and solid particles.

Klüberfluid C-F 3 ULTRA meets the requirements of ANSI/AGMA 9005-E02 annex D-2.

Applications

Klüberfluid C-F 3 ULTRA can be used for immersion, paddle wheel, circulation and spray lubrication of large girth gear drives. Application possibilities are not restricted, neither by gear sizes nor power ratings. A peripheral speed of 10.0 m/s should 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 and in power plants. Further applications are found in sugar and paper production as well as in marine and offshore technology.

Application notes

When applied by immersion, Klüberfluid C-F 3 ULTRA is directly transferred to the tooth flanks. You can also use the Klübermatic PA circulation lubrication system to force-pump the lubricant onto the tooth flanks.

Klüberfluid C-F 3 ULTRA can also be applied via customary spray systems. Please consult Klüber Lubrication München KG, dept. MA-LSS, phone 089-7876-0 for information on their suitability. The lubricant film on the tooth flanks can be made visible by means of 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 pack in a dry place; the pack should not be exposed to direct sunlight.

- Operational lubricant for open gear drives with immersion, circulation or spray lubrication systems
- For normal to elevated component temperatures
- Free from heavy metals, chlorine, solvents, bitumen and solid particles
- Easy application
- High wear and tooth flank protection
- Reduced maintenance, lower disposal costs
- Light-coloured, transparent product

Pack sizes

25 kg hobbocks
50 kg hobbocks
180 kg drum

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, DIN 51757, at 20°C, [g/cm ³], approx.	0.92
Kinematic viscosity, DIN 51562 T01, Ubbelohde, 20°C, [mm ² /s], extrapolated, approx. 40°C, [mm ² /s], approx. 100°C, [mm ² /s], approx.	90 000 16 500 500
Viscosity index, DIN ISO 2909, VI	170
Four-ball tester welding load, DIN 51350 T04, [N]	≥ 8 000
FZG special test A 8,3/90, DIN 51354 T02, scuffing load stage specific loss in weight, [mg/kWh]	> 12 < 0.2
Application by immersion, [°C]	15 to 120
Application in circulation lubrication systems, [°C]	15 to 80
Application in automatic spray systems, [°C]	15 to 120
Functional lubricant film, [°C]	down to -30
Lubricant film resistance to thermal loads, [°C]	to 120
Flash point, DIN EN ISO 2592, Cleveland, open crucible, [°C]	> 200
Pourpoint, DIN ISO 3016, [°C]	< 10

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.



Klüber Lubrication, a member of the Freudenberg group

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Klüber Lubrication München KG
Geisenhausenerstraße 7, 81379 München, Deutschland
☎ +49 89 7876-0, Telefax +49 89 7876-333, www.klueber.com