

## Klüberfluid® C-F 7 Ultra

Operational lubricant for large, open girth gear drives

### Benefits for your application

- **Eco-friendly:** free of bitumen and raw materials containing solvents, heavy metals or chlorine
- **Economical:** low lubricant consumption, low disposal costs
- **Easy handling:** light-colored, transparent product, immediate inspection results during operation
- **Clean appearance, hence high acceptance by machine operating personnel**

### Description

Klüberfluid C-F 7 Ultra is a newly developed operational lubricant based on synthetic oils, especially for use on medium to large girth gear drives. It provides good adhesion, resistance to high pressure and wear protection and can be used at component temperatures up to 120°C. Klüberfluid C-F 7 Ultra is free of bitumen, raw materials containing solvents, heavy metals or chlorine and solid lubricants.

Klüberfluid C-F 7 meets the requirements set forth in ANSI/AGMA 9005-E02 Annex D-2. This product was especially developed with a view to low-temperature applications.

### Application

Klüberfluid C-F 7 Ultra can be applied by immersion, transfer paddle wheel, circulation or spray lubrication systems. It can be used with all gear sizes and power ratings. A peripheral speed of 10 m/s however should not be exceeded.

Such drives are mostly found in rotary kilns, tube mills, drums and similar machinery used in the cement, lime, gypsum, mining and chemical industries as well as in coal-fired power stations. Further applications are in sugar and paper production as well as in the marine and offshore sector.

### Application notes

When applied by immersion, Klüberfluid C-F 7 Ultra is directly transferred onto the tooth flanks of the immersing wheel. The Klübermatic PA circulation lubrication system can also be employed to recirculate the lubricant under pressure onto the tooth flanks.

Klüberfluid C-F 7 Ultra may also be applied via the customary spray systems. Please consult with Klüber Lubrication München KG, dept. MA-LSS, phone: +49 89 7876-0 for information on their suitability.

The lubricant film on the tooth flanks can be made visible by using a UV lamp with a wavelength of 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, frost-free place.

### Pack sizes

25 kg bucket  
180 kg drum

### Material Safety Data Sheets

Material safety data sheets can be downloaded or requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.



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Product data	Klüberfluid C-F 7 Ultra
Color, aspect	yellow, turbid
Texture	homogeneous, fibrous
Density (20 °C) DIN 51 757, [g/cm³], approx.	0.95
Kinematic viscosity, DIN 51 562 pt. 01 40 °C, [mm²/s]**	≤ 25,000
Kinematic viscosity, DIN 51 562 pt. 01 100 °C, [mm²/s], approx.	1,000
Four-ball wear test, DIN 51350, pt. 02, [N]	≥ 8,000
Timken OK load, DIN 51434-2, [lbs], [(N)] **	60 (267)
FZG special test A/2,76/50, DIN ISO 14635-1, scuffing load stage specific loss in weight, [mg/kWh]	> 12 ≤ 0.2
Application by immersion, [°C] *	- 5 to 120
Application by circulation lubrication systems, [°C] *	- 5 to 120
Application by spray systems, [°C] *	15 to 120
Functional lubricant film (lowest temperature), [°C] *	- 40
Thermal stability of lubricant film (highest temperature), [°C] *	≤ 120
Flash point, DIN EN ISO 2592, [°C]	≥ 200
Pour point, DIN ISO 3016, [°C]	≤ - 8

\* 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.

\*\* The values are not subject to regular review and serve for orientation only. Binding product data cannot be derived from these values.

## 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](http://www.klueber.com)

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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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