Wilhelmsen Ships Service

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KLÜBERFLUID C-F 3 ULTRA 25 KG

Product group: **685** Product number: **210044**



KLÜBERFLUID C-F 3 ULTRA is an eco-friendly, easy-to-apply lubricant for large girth gear drives. Optimised for application via spray systems for improved convenience and reduced consumption. It also offers great adhesion strength, excellent resistance to pressure and wear, and stays high-performing in elevated service temperatures.

Product information

Medium-sized to large-sized girth gears are commonly subject to extremely heavy loads. Exposure to harsh conditions like prolonged contact with seawater also results in wear and corrosion.

KLÜBERFLUID C-F 3 ULTRA is a newly developed transparent adhesive lubricant meant to work with these gear drives --- protectively for them and conveniently for you. Based on a mixture of synthetic hydrocarbons and mineral oil, it is an excellent adhesive and possesses good resistance to high pressure. It also offers optimum wear protection for your tooth flank.

Furthermore, KLÜBERFLUID C-F 3 ULTRA was designed to work over a range of temperatures. It is suitable for normal to elevated service temperatures and can operate with component temperatures up to 120°C. It is supported by good low-temperature behaviour as well.

KLÜBERFLUID C-F 3 ULTRA is free from bitumen, heavy metals, chlorine and solid lubricants, making it an organic and eco-friendly choice in your commitment to protecting our seas and homes.

Features

- Spray application
- Good behaviour across low and high service temperatures
- Organic solvent
- Good adhesion
- Resistant to high pressure
- Wear protection
- Light-coloured, transparent product

Benefits

- Environmentally-friendly
- Easy to use via spray application
- Low consumption required
- Protects your gear drives from wear
- Protects damage to your gear drives by high pressure
- Adheres to gears well across a wide range of temperatures, reducing your need for maintenance

Specification

General

Suggested Inventory Hazard Material classification	C-30

Physical properties

Colour	Brown
Density at 20°C [g/cm³]	~ 0.92
Kinematic viscosity (without solvent), DIN 51562 pt 01/ASTM D-445/ASTM D 7042, 40°C [mm²/s]	~ 16 500
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C [mm²/s]	~ 4000
Texture	Homogeneous

Dimensions/Weight

Packing Size	25 kg

Technical data

Application in automatic spray systems	0 - 80°C
Shelf life [months]	24
Viscosity index, DIN ISO 2909	~ 160

Performance data

Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus [°C]	>130
Four-ball EP tester, welding load, DIN 51350 pt. 02 [N]	≥7000
Functional lubricant film [°C]	≥-30
FZG scuffing test, based on DIN ISO 14635, A/2,76/50, scuffing load stage	≥12
FZG scuffing test, based on DIN ISO 14635, A/2.76/50, change in weight	≤0.2 mg/kWh
Pour point, DIN ISO 3016 [°C]	<-5
Thermal stability of the lubricating film [°C]	≤120

Documents

SDoC and MD for IHM

Directions for use

KLÜBERFLUID C-F 3 ULTRA is appropriate to use as spray lubrication for large gear rim/pinion drives. Suitable for all gear sizes and power ratings.

Note that a peripheral speed of 10 m/s should, however, not be exceeded.

Apply KLÜBERFLUID C-F 3 ULTRA to the tooth flanks via spray lubrication systems working with container or barrel pumps.

To view the lubricant film on the tooth flanks, use a UV lamp of at least 366 nm.

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