GRAFLOSCON C-SG 0 ULTRA, C-SG 1000 ULTRA

Graphite based operational lubricant for open gear drives

Your benefits at a glance

- **Improves surface condition of loaded tooth flanks due to presence of graphite particles**
- **Enhanced service life of gears by reducing scuffing and pitting**
- **Reduction in vibration and temperature difference across tooth flanks due to improved load pattern**
- **Provides extra protection during shock loads due to presence of solid lubricants**
- **Reduced lubricant consumption as lubricating film is effective for a long period of time**
- **Recommended by leading OEMs like FLSmidth, ThyssenKrupp, KHD, Ferry Capitain, Cemtec, Hoffmann Engineering, etc. and used by leading global players**

Your requirements – our solution

Ensuring a long life and reliable operation of the open gears is a challenge that you are probably facing in your daily work. The varying operating conditions like high loads, vibrations, temperature differentials, dusty environment, varying speed, etc. affect the reliable operation of open gears. These unfavourable operating conditions result in pitting, scuffing and other forms of wear affecting the reliability of your plant.

The lubricant in such instances has to form a protective layer separating the intermeshing tooth surfaces. It is for such demanding applications that the GRAFLOSCON C-SG ULTRA series has been designed.

Because of its unique chemical composition based on an aluminium soap thickener, the GRAFLOSCON C-SG ULTRA series provides good adhesion that protects the tooth flank even at extreme loads.The life of the gear is enhanced by the presence of fine graphite particles that form a protective layer and prevent damage.

The vibrations and temperature difference across the tooth flank are reduced. The gears are also protected against corrosion due to the special additives.

Application

The GRAFLOSCON C-SG ULTRA series was especially developed for the running-in of large open gear drives in rotary kilns, tube mills, dryers, lime kilns, rotary coolers, etc. used in the cement, lime, gypsum, mining, steel, power, paper & pulp and chemical industries.

The GRAFLOSCON C-SG ULTRA series may also be used to lubricate and protect slide and guide rails, large chains, wire ropes and similar devices. Further applications are found in sugar and paper production as well as in marine and offshore technology.

Application notes

The GRAFLOSCON C-SG ULTRA series is applied to the gear mainly through automatic spray systems. For smaller gear drives, it can also be applied by brush or the Klübermatic® LB manual spray gun. Do not expose the lubricant to direct sunlight.

Please contact our service engineers for in-depth technical and performance support at your site.

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	GRAFLOSCON C-SG 0 ULTRA	GRAFLOSCON C-SG 1000ULTRA
Bucket 25 kg	-	+
Drum 180 kg	-	+

a brand of FREUDENBERG

GRAFLOSCON C-SG 0 ULTRA, C-SG 1000 ULTRA

Graphite based operational lubricant for open gear drives

Product data	GRAFLOSCON C-SG 0 ULTRA	GRAFLOSCON C-SG 1000ULTRA
Article number	039067	039077
Colour space	black	black
Texture	short-fibred	long-fibred
Texture	homogeneous	homogeneous
Density at 20 °C	approx. 0.96 g/cm³	approx. 0.98 g/cm³
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 680 mm²/s	approx. 800 mm²/s
NLGI grade, DIN 51818	0	0
Thermal stability of the lubricating film	<= 200 °C	<= 220 °C
Functional lubricant film	>= -30 °C	>= -30 °C
Application in automatic spray systems	approx. 0 - 90 °C	approx. 5 - 100 °C
Drop point, DIN ISO 2176	>= 110 °C	>= 90 °C
FZG scuffing test, based on DIN ISO 14635, A/2.76/50, change in weight	<= 0.2 mg/kWh	<= 0.2 mg/kWh
FZG scuffing test, based on DIN ISO 14635, A/2,76/50, scuffing load stage	>= 12	>= 12
Water resistance, DIN 51807 pt. 01, 3 h/40°C	0 - 40	0 - 40
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months	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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