

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 gear couplings, 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 1000 ULTRA
Cartridge 400 g	+	

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Can 1 kg	+	+
Bucket 5 kg	+	
Bucket 25 kg	+	+
Bucket 50 kg	+	
Drum 180 kg	+	+

Characteristics	GRAFLOSCON C-SG 0 ULTRA	GRAFLOSCON C-SG 1000 ULTRA
Article number	039067	039077
Solid lubricants	approx. 8 % by weight	approx. 8 % by weight
Colour space	black	black
Texture	homogeneous , short fibrous	homogeneous , long fibrous
Application, in automatic spray systems	approx. 0 - 90 °C	approx. 5 - 100 °C
Functional lubricant film	≥ -30 °C	≥ -30 °C
Thermal stability of the lubricating film, depends on the relubrication	≤ 200 °C	≤ 220 °C
Density, Klüber method: PN 024, 20°C	approx. 0.96 g/cm ³	approx. 0.98 g/cm ³
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	360 0.1 mm	
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	400 0.1 mm	400 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 680 mm ² /s	approx. 1000 mm ² /s
Dropping point, DIN ISO 2176 / IP 396	≥ 110 °C	≥ 90 °C
FZG scuffing test, DIN ISO 14635-3, based on standard, A / 2.8 / 50, change of weight	≤ 0.2 mg/kWh	≤ 0.2 mg/kWh
FZG scuffing test, DIN ISO 14635-3, based on standard, A / 2.8 / 50, failure load stage	≥ 12	≥ 12
Water resistance, DIN 51807-1, 3 h, 40°C	0 - 40 rating	0 - 40 rating
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

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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 90 years.

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