

# Klübersynth OA 98-15000

Operational lubricant for large gear drives



## Your benefits at a glance

- **Considerable cost savings through**
  - enhanced tooth flank life due to very good wear protection
  - high base oil viscosity and additional white solid lubricants for reduced scuffing and pitting
  - reduced consumption and disposal based on a more efficient lubricant demand
  - improved surface condition and protection of loaded tooth flanks as the fluid grease removes contamination more easily
- **Improved maintenance due to**
  - no settling in the drum and reduced nozzle clogging due to the integration of the solid lubricant in the base oil
  - easier inspection of the tooth flanks during operation due to the light-coloured solid lubricant
  - white solid lubricants make contact pattern visible
  - reduced tendency for leakage around the gear guard due to the adhesive nature of the product

## Your requirements - our solution

Open gears are subjected to challenging operating conditions like vibrations, dusty environments, high varying loads and other operational parameters.

Therefore, reliable operation of the open gear drive and occupational safety have the highest priority for you as the person responsible.

Klübersynth OA 98-15000 offers you optimal support. This special lubricant based on the SLIBF concept (Solid Lubricant Integrated Base Fluid) was developed precisely to meet the high demands of open gear drives.

It provides excellent adhesion, good film formation, less splashing from the gears and reducing leakages from the gear casing. This results in better maintenance practices and increased safety. It also provides good pumpability at lower temperatures and offers low resistance to pumping the lubricant.

Klübersynth OA 98-15000 provides excellent wear protection under high loads and even under higher peripheral speeds.

## Application

Klübersynth OA 98-15000 is especially developed as an operational lubricant 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. Further applications are found in the sugar, marine and offshore sectors.

Application possibilities are not restricted by gear sizes or power ratings.

## Application notes

Klübersynth OA 98-15000 can be applied by immersion, paddle wheel, circulation and automatic spray lubrication systems.

The lubricant film on the tooth flanks can be easily observed because of the light colour of the product.

Please do not hesitate to contact our technical consultants and sales departments to discuss grease miscibility, relubrication procedures, etc. If you wish to optimise the service life of your equipment or have any other questions regarding your application, our experts will be pleased to help you.

## Material safety data sheets

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

### Pack sizes

Bucket 25 kg

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Product data	Klübersynth OA 98-15000
Article number	039222
Application by immersion bath	15 - 120 °C
Application in circulation lubrication systems	15 - 80 °C
Application in automatic spray systems	15 - 120 °C
Thermal stability of the lubricating film	<= 120 °C
Colour space	beige
Texture	homogeneous
Lincoln sprayability test	passed
NLGI grade, DIN 51818	00
Density at 20 °C	approx. 0.93 g/cm <sup>3</sup>
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 200 °C
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 17 000 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 500 mm <sup>2</sup> /s
Four-ball tester, wear factor, DIN 51350 pt. 05, 1 h/400 N, wear scar diameter	< 0.8 mm
Four-ball EP tester, welding load, DIN 51350 part 2	>= 6 500 N
FZG scuffing test, DIN ISO 14635-3, A/2,8/50, change in weight	<= 0.2 mg/kWh
FZG scuffing test, DIN ISO 14635-3, A/2,8/50, scuffing load stage	>= 12
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	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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