

# COPAL OGL 1



Grease

**Extreme-pressure adhesive aluminium complex grease with solid lubricants for loaded open gears.**

## APPLICATIONS

**Semi fluid heavy duty water resistant grease.**

### Recommendation

- **COPAL OGL 1** is a predominantly designed for use on open gears, in case where an NLGI 1 grade is required.
- **COPAL OGL 1** was specifically designed for sugar mill brasses. It is also suitable for any other slowly rotating heavily loaded journal bearings, as well in highly loaded plain bearings in the most severe conditions (shocks, high loads, high amount of water,...) or for application requiring a highly adhesive grease (fifth wheel,...).
- Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system. **COPAL OGL 1** can be applied by hand with brushes, or other adapted tools. A good cleanliness of tools is recommended for optimal lubrication.

## SPECIFICATIONS

- ISO 6743-9: L-XBDEB 1
- DIN 51 502: OGP1N-15

## ADVANTAGES

**High adhesiveness**

**High loads**

**High temperatures**

**Water resistant**

**Anti corrosion**

**No harmful substances**

- Excellent adhesiveness, associated with the very good resistance to high loads and repeated shock loadings, **COPAL OGL 1** gives a high protection level against wear on gear teeth and plain bearings, increasing significantly the service life of the equipment.
- **COPAL OGL 1** contains solid lubricants, decreasing friction coefficient, limiting wear particularly near the tooth crest and tooth base, decreasing energy consumption.
- Good behaviour in presence of water even under pressure.
- **COPAL OGL 1** does not contain lead, or other heavy metals considered harmful to human health and the environment.

CHARACTERISTICS	METHODS	UNITS	COPAL OGL 1
Soap/thickener		-	Aluminium complex
NLGI grade	ASTM D 217/DIN 51 818	-	1
Color	Visual	-	Anthracite
Appearance	Visual	-	Smooth
Operating temperature range		°C	-15 to 150
4 ball weld load	ASTM D2596	kg	>800
4 ball Wear, Scar diameter	ASTM D2266	mm	<0.7
FZG A2.8/50 scuffing load step	DIN 51 354	rating	>12
Anti-rust performance SKF- EMCOR	DIN 51 802/IP220/NFT 60-135/ISO 11007	rating	0-0
Dropping point	IP 396/NFT 60 102 C	°C	>210
Kinematic viscosity of the base oil at 40°C	ASTM D 445/DIN 51 562-1/ISO 3104/ IP71	mm <sup>2</sup> /s (cSt)	>1000

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS  
INDUSTRIE  
25-11-2013  
COPAL OGL 1  
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. is obtainable via your commercial adviser [www.quick-fds.com](http://www.quick-fds.com).