

ENVIROLUBE® SYNTHETIC OGL HIGH PERFORMANCE, CLEAR OPEN GEAR LUBRICANT

For many years the Whitmore Envirolube® series of products has been providing robust protection to the open gears of Ball Mills and Kilns. A key to the success of these products has been an additive combination that reduces friction and wear and promotes smoothing of previously-damaged surfaces.

This unique additive system is now incorporated into a high-viscosity synthetic fluid, Envirolube® Synthetic OGL. This product retains the powerful protection of its predecessors, with the added benefits of clean operation and reduced consumption.

The high viscosity of Envirolube® Synthetic OGL has a strong tendency to put gears into hydrodynamic operating mode, where surfaces are separated continuously by a film of oil. The polar, heat-activated additives form a protective phalanx on the surface. If the gears are new, or have suffered previous damage, asperities collide through the film. However, the additive layer is now activated by the heat of friction. A dense layer is formed. The operating load continues to exert pressure on the surfaces, as it always does, but instead of causing damage it deforms the asperities, smoothing the gear contact area. Hydrodynamic operation is facilitated.

BENEFITS:

- WEAR PROTECTION, SURFACE SMOOTHING - extends gear life and reduces operating expenses. The need for special running-in compounds is eliminated.
- GEAR INSPECTION – The coating is transparent, allowing for gear inspection using a strobe light.
- CLEAN – The product flows readily from the gear guard, doesn't harden and is easily removed.
- CLEAN-UP – Existing residue from "dirty" lubricants will be gone from the gears in about 2 weeks, and from the gear guard in 3 to 6 months.

APPLICATIONS:

Use on open gears of Ball Mills, Kilns, Calciners etc. Suitable for use where gears are severely loaded, including where there is pre-existing pitting and scuffing. Meets the specifications of Falk, Metso Minerals and FL Smidth. Suitable for use in sump systems, and automatic lubrication systems using either drip tubes or spray nozzles.

ASTM #	Grade name	TYPICAL CHARACTERISTICS
	Kinematic Viscosity, cSt @ 40°C cSt @ 100°C	15k >15,000 950
D-445	Viscosity Index	265
D-2270	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	7.0 0.84
Gardner Method	Flash Point, Cleveland Open Cup, °F (°C)	375 (190)
D-92	Four Ball EP Weld Point, kg	Passes 800
D-2783	Four Ball Wear (standard settings) Scar Width, mm	0.32
D-4172	Copper Strip Corrosion	1b
D-130	FZG Test Specific mass loss (pinion and gear) after stage 12, mg/kWh	0.199
D-5182		

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

IBC	Fluid Bag	Drums	Kegs	Pails
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For warranty information: sales@whitmores.com

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