

ENVIROLUBE® XE EXTREME

EXTREME-SERVICE OPEN GEAR LUBRICANT - NONASPHALTIC

For many years Whitmore® Envirolube® XE has been a proven, robust open gear lubricant used primarily on Ball Mills and Kilns. It is free of heavy metals and asphalt. Instead of asphalt, it contains a blend of high viscosity petroleum distillate, synthetic polymer and resins. The advantage over asphalt is that the spent lubricant does not harden over time. This greatly simplifies cleanup.

Whitmore now introduces a new generation of open gear lubricant, Whitmore Envirolube XE Extreme. This unique product contains an additive combination that further reduces friction and wear and promotes smoothing of contact surfaces.

Scuffing wear occurs when the tips of opposing asperities momentarily weld. Whitmore Envirolube XE Extreme creates an effective layer of chemical and physical protection that prevents micro-welding and scuffing. With this protective cushion in place, the high load on the gears causes the asperities to be pushed down, thus smoothing them with minimal removal of metal.

Whitmore Envirolube XE Extreme can be used in a sump system and applied by oiler wheel or sprayed intermittently onto the gears. For large, heavily loaded Ball Mill gears a lubrication frequency of 15 to 20 minutes is normal.

BENEFITS:

- **WEAR PROTECTION, SURFACE SMOOTHING** - extends gear life and reduces operating expenses. The need for special running-in compounds is eliminated.
- **GEAR INSPECTION** – The brown coating is visible on the gear, but is transparent enough to allow for gear inspection using a strobe light.
- **EASY CLEANUP** - The non-asphaltic base remains soft. It flows readily from the gear guard and is easily removed.
- **TCLP-Safe** – passes the EPA Toxicity Characteristic Leaching Procedure. The spent product is not considered a “characteristic hazardous waste”.

APPLICATIONS:

Use on heavily loaded open gears such as Ball Mills and Kilns. Both grades meet the specifications of Falk and Metso Minerals. They also meet requirements of FL Smidth when used in intermittent spray systems. Suitable for use in sump systems and in automatic lubrication systems using either drip tubes or spray nozzles, and in airless spray systems.

ASTM #	Grade name	TYPICAL CHARACTERISTICS	
		Medium	Heavy
D-445	Kinematic Viscosity , (base fluid) cSt @ 40°C cSt @ 100°C	>100,000 1,100	>100,000 1,100
D-445	Kinematic Viscosity (completed product) cSt @ 40°C	1,080	4,000
Gardner Method	Density , lb/gal @ 60°F (15.5°C)	7.53	7.46
	Specific Gravity , g/cc @ 60°F (15.5°C)	0.904	0.896
D-93	Flash Point , Pensky Martens, °F (°C)	245 (118)	245 (118)
D-92	Flash Point , Cleveland Open Cup, °F (°C)	345 (174)	345 (174)
D-2783	Four Ball EP Weld Point, kg	800	800
D-4172	Four Ball Wear (standard settings) Scar Width, mm	0.50	0.50
D-4048 Modified	Copper Strip Corrosion 212° (100°C) @ 3 hr	1B	1B
	Low Temperature Pumpability Lincoln Ventmeter @ 400 psi, °F (°C)	5 (-15)	20 (-7)
	FZG Test at settings A/2.76/50 Total specific mass loss after stage 12, mg/kWh	--	0.067

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

PACKAGING

Plastic Totes (Non-returnable)	Drums	Kegs	Pails
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