

## ENVIROLUBE® XE & ENVIROLUBE® XE EXTREME NON-ASPHALTIC OPEN GEAR LUBRICANT

Whitmore's Envirolube® XE is a proven, robust open gear lubricant used primarily on Ball Mills and Kilns. It is free of heavy metals and asphalt. Instead of asphalt, Envirolube® XE 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 grade of Envirolube® XE. Envirolube® XE Extreme contains a new additive combination that further reduces friction and wear and promotes smoothing of contact surfaces. Inadequately lubricated gears can experience scuffing under high load. Scuffing occurs when the tips of opposing asperities momentarily weld. Envirolube® XE creates an effective layer of chemical and physical protection that prevents 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. The smoothing effect will also partially flatten out pre-existing wear damage within a few hundred hours of operation. Envirolube® XE Extreme takes this surface-smoothing effect to a whole new level. Improvement to damaged surfaces can be seen after only a few hundred hours of operation.

Envirolube® XE Extreme also prevents pitting. Pitting is caused by metal fatigue and metal fatigue is minimized when the load is borne by smoother surfaces.

### 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.

### APPLICATIONS:

Use on heavily loaded open gears such as Ball Mills and Kilns. The Medium and Heavy grades meet the specifications of Falk, FL Smidth and Metso Minerals.

All grades are suitable for use automatic lubrication systems using either drip tubes or spray nozzles. It is also suitable for use in airless spray systems. Do not use with NBR rubber seals. Viton® is recommended.

ASTM #		680	Medium	Heavy	Extreme Heavy
D-445	<b>Kinematic Viscosity</b> cSt @ 40°C	637	1,080	4,000 – 5,000	4,000 - 5,000
Gardner Method	<b>Density, lb/gal @ 60°F (15.5°C)</b>	7.51	7.53	7.46	7.46
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	0.915	0.904	0.896	0.896
D-2783	<b>Four Ball EP</b> Weld Point, kg	800	800	800	800
D-4172	<b>Four Ball Wear (standard settings)</b> Scar Width, mm	0.49	0.51	0.45	0.45
D-4048 Modified	<b>Copper Strip Corrosion</b> 212° (100°C) @ 3 hr	1B	1B	1B	1B
	<b>Low Temperature Pumpability</b> Lincoln Ventmeter @ 400 psi, °F (°C)	-5 (-21)	5 (-15)	20 (-7)	
	<b>FZG Stages Passed</b>	--	--	>12	--
	<b>Total Weight Loss After Stage 12</b>	--	--	26.5	--
	<b>Coefficient of friction</b>	--	--	0.0964	0.0551

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

### PACKAGING

Shuttle Tanks	Drums	Kegs	Pails
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