

## ENVIROLUBE® EXTREME TCLP-SAFE OPEN GEAR LUBRICANT

When it comes to protecting heavily loaded open gears, Whitmore's Envirolube® has been recognized by OEMs and end-users alike as the product that gets the job done.

In 2012 Whitmore introduced a further improvement. A special blend of new anti-wear chemistry was added. The resulting product has been named Envirolube® Extreme. Nothing has been taken away from the original Envirolube®. The synergy created by the Extreme additive system reduces friction and wear to levels that were never thought possible. Friction reduction: 28.1%. Wear reduction: 28.5%.

When Envirolube® Extreme is used, new gears (and even damaged gears) are smoothed through a combination of chemical polishing and compression caused by high load. This process is often called "Planishing". There is no need for special running-in products.

Ideally, Envirolube® Extreme should be sprayed intermittently onto the gears. This allows the product to partially dry on the gears, resulting in a more robust high-viscosity protective film. For large, heavily loaded Ball Mill gears a lubrication frequency of 15 to 20 minutes is normal.

### BENEFITS:

- WEAR PROTECTION - extends gear life.
- SURFACE SMOOTHING – The addition of the "Envirolube® Extreme" additive combination multiplies the smoothing effect that has been witnessed for many years by customers who used Envirolube®. Smoother surfaces spread the load, thus preventing wear. The need for special running-in compounds is eliminated.
- RUST PROTECTION - protects against rust and corrosion.
- TCLP-Safe – passes the EPA Toxicity Characteristic Leaching Procedure. The spent product is not considered a "characteristic hazardous waste".

### APPLICATIONS:

Envirolube® Extreme meets or exceeds the requirements of major OEM's for open gear lubricants including Metso.

Use Medium grade on unheated mills in weather conditions between 0°F (-18°C) and 110°F (43°C). Use Heavy grade on heated mills up to 220°F (105°C) or where gears are badly worn.

All grades are suitable for use in airless spray systems. Do not use with NBR rubber seals. Viton® is recommended.

ASTM #		TYPICAL CHARACTERISTICS	
		Envirolube® Extreme Medium	Envirolube® Extreme Heavy
D-445	Kinematic Viscosity, (base fluid) cSt @ 40°C cSt @ 100°C	77,000 659	>100,000 1,263
D-445	Kinematic Viscosity (completed product) cSt @ 40°C	820	2,034
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	8.44 1.013	8.47 1.017
D-2783	Four Ball EP Weld Point, kg	Passes 800	Passes 800
D-4172	Four Ball Wear, Scar Width, mm	0.393	0.393
	Coefficient of friction	Not Tested	0.04348
	Lincoln Ventmeter @ 400 psi, °F (°C)	0 (-18)	15 (-9)
	FZG Stages Passed, DIN 51354	14	14

\*Extrapolated

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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For warranty information, scan the QR code.

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Made in the USA in an ISO 9001:2015 and ISO 14001:2015 Facility

