TECHNICAL DATA SHEET

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.

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 cSt @ 100°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

For warranty information, scan the QR code.
You can also email us at sales@whitmores.com
Or write to the Sales Department at the address below.

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