



# TECHNICAL DATA SHEET

## EARTHKEEPER® WRL BIODEGRADABLE WIRE ROPE LUBRICANT

Wire ropes are a machine component. Like any other machine component, they have moving parts that require lubrication. Bending and stretching of the rope results in friction and a good anti-wear lubricant is called for. Earthkeeper® WRL penetrates to the core, ensuring that the rope is lubricated throughout. The oil is treated with additives that enhance anti-wear capabilities and even provide a degree of extreme pressure protection. Wire rope life is extended. Downtime for rope changes is reduced and production is increased.

Earthkeeper® WRL is ideal for marine environments. Negative consequences from accidental spillage are greatly reduced, as it easily passes all tests for biodegradability and is classified as "Readily Biodegradable".

Earthkeeper® WRL meets the definition of a biobased lubricant as outlined in section 9001 of The Farm Security and Rural Investment Act (FSRIA) of 2002 (Public Law 107-171/ HR 2642) and qualifies for preferred procurement by U.S. Federal Agencies as set forth in FSRIA section 9002.

### BENEFITS:

- BIODEGRADABLE – an ethical and safe choice for use in sensitive areas.
- WEAR PROTECTION – extreme load carrying extends rope life.
- RUST RESISTANCE – outstanding protection.
- MULTI-GRADE – reduces viscosity variations with changing temperatures.

### APPLICATIONS:

Use Earthkeeper® WRL for all wire ropes, especially those in ecologically sensitive areas and near waterways.

ASTM #		TYPICAL CHARACTERISTICS
D-445	<b>Kinematic Viscosity</b>	
	cSt @ 40°C	24.4
	cSt @ 100°C	5.9
D-2270	<b>Viscosity Index</b>	205
D-97	<b>Pour Point, °F (°C)</b>	-35 (-37)
Gardner Method	<b>Density, lb/gal @ 60°F (15.5°C)</b>	7.64
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	0.918
D-92	<b>Flash Point, °F (°C)</b> Cleveland Open Cup	320 (160)
D-2783	<b>Four Ball EP</b> Weld Point, kg	250
D-4172	<b>Four Ball Wear</b> Scar Wear, mm	0.40
D-665	<b>Rust Test</b>	Pass

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

### PACKAGING

Shuttle Tanks	Drums	Pails
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### THE WHITMORE MANUFACTURING COMPANY

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