



# TECHNICAL DATA SHEET

## EARTHKEEPER® EP BIODEGRADABLE EXTREME PRESSURE GREASE

Earthkeeper® EP is a high performance lubricating grease based on calcium sulfonate thickener and a blend of biodegradable oils. This extreme pressure grease is suitable for a wide range of applications, including equipment under severe load, shock load, and vibrations.

Besides offering excellent wear protection, Earthkeeper® EP protects bearings from water, including acidic and caustic solutions. Earthkeeper® EP continues to protect long after conventional greases have become too waterlogged and soft to be of any value. The rust protection is second to none, greatly extending the life of bearings exposed to brine or other corrosive materials.

Earthkeeper® EP grease 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** – easily passes all tests for biodegradability and is classified as “Readily Biodegradable”.
- **WEAR PROTECTION** – suitable for use on highly loaded equipment.
- **WATER RESISTANCE** – resists being flushed out of the bearing.
- **RUST RESISTANCE** – outstanding protection.

### APPLICATIONS:

Use Earthkeeper® EP in all industrial bearings, earthmoving and mining equipment. It is especially useful in ecologically sensitive areas and in marine equipment.

ASTM #		TYPICAL CHARACTERISTICS
	<b>Grade</b>	EP 2
<b>D-217</b>	<b>Cone Penetration (Worked)</b>	265-295
<b>D-2265</b>	<b>Dropping Point, °F (°C)</b>	532 (278)
<b>D-445</b>	<b>Kinematic Viscosity (Base Oil with Polymer)</b>	
	cSt @ 40°C	220.0
	cSt @ 100°C	49.0
<b>Gardner Method</b>	<b>Density, lb/gal @ 60°F (15.5°C)</b>	8.61
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	1.03
<b>D-2596</b>	<b>Four Ball EP</b>	
	Weld Point, kg	500
<b>D-2266</b>	<b>Four Ball Wear</b>	0.60
	Scar Width, mm	
<b>D-1264</b>	<b>Water Washout, % Loss</b>	4
	<b>Thickener Type</b>	Calcium Sulfonate
<b>OEM Standard</b>	<b>Low Temperature Pumpability</b>	
	Lincoln Ventmeter @ 400 psi, °F (°C)	30 (-1)
	<b>Operating Temperature Range</b>	30 (-1) to 250 (120)
<b>FTM 321.2</b>	<b>Screen Bleed, % Loss</b>	1.5

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

### PACKAGING

Shuttle Tanks	Nonreturnable Totes	Drums	Pails
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### THE WHITMORE MANUFACTURING COMPANY

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Performance Under Pressure Since 1893

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