



TECHNICAL DATA SHEET

CALIBER™ 460 M EXTREME PRESSURE GREASE with MoS₂

Whitmore's Caliber™ 460 M is a robust extreme pressure (EP) lithium complex grease containing molybdenum disulfide. It is designed primarily for earthmoving equipment and other heavy-duty rolling stock applications.

Whitmore has combined high oil viscosity with oil-soluble EP additives and solid lubricants to form a grease that can withstand high load and prevent scuffing or pitting of contact surfaces. Caliber™ 460 M can be used with confidence no matter how rough the terrain.

The lithium complex thickener assures outstanding stability and water resistance.

BENEFITS:

- WATER-RESISTANT - excellent resistance to washing out of bearings.
- EXTREME PRESSURE - protects against shock loads and scuffing of metal surfaces. Reduces parts replacement and downtime.
- SEALS OUT DIRT AND CONTAMINANTS - forms a protective barrier to reduce wear and extend lubricant life.
- VERSATILE FORMULATION - ideal for a wide range of equipment, including process machinery and industrial applications.

APPLICATIONS:

Whitmore's Caliber™460 M is designed to lubricate the components of earthmoving equipment and rolling stock. It is recommended for wheel bearings, slewing bearings, vehicle chassis points and U-joints, as well as pivot points and bucket pins on earthmoving equipment. Caliber™ 460 M will provide extended service intervals and reduced wear to draglines, shovels, excavators, trucks, conveyors, and other rolling stock, as well as in-plant applications.

Caliber™ 460 M EP 2 has been approved for use in central lubrication systems and for manual lubrication of Komatsu's PC3000, PC4000, PC5500, and PC8000 series excavators.

ASTM #	Grade	TYPICAL CHARACTERISTICS		
		EP 0	EP 1	EP 2
D-217	Cone Penetration (Worked)	355-385	310-340	265-295
D-2265	Dropping Point, °F (°C)	450 (232)	475 (246)	>500 (260)
D-445	Kinematic Viscosity (Base Oil + Polymer) cSt @ 40°C cSt @ 100°C	140 15.1	230 21.0	480 35.4
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	7.56 0.9060	7.56 0.9060	7.57 0.9076
D-2509	Timken OK Load, lbs, minimum	65	65	65
D-2596	Four Ball EP Weld Point, kg (minimum) Load Wear Index (minimum)	620 65	620 65	800 65
D-2266	Four Ball Wear, Scar Width, mm	0.57	0.57	0.57
D-4049	Water Spray-Off, % Loss	NA	NA	10
D-1264	Water Washout, % Loss @ 100°F (38°C)	NA	<5	<2
D-1743	Rust Test	Pass	Pass	Pass
D-4048 (Modified)	Copper Strip Corrosion for Greases 212°F (100°C) @ 3 hrs	1B	1B	1B
	US Steel Mobility Test g/sec @ 0°F (-18°C)	0.21	0.15	0.05
	Usable Temperature Range, °F (°C)	-15 (-26) to 50 (10)	-5 (-20) to 80 (27)	23 (-5) to 120 (49)

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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