

### CALIBER™ M EXTREME PRESSURE GREASE with MoS<sub>2</sub>

Whitmore's Caliber™ M is an extreme pressure lithium complex grease containing molybdenum. It is designed primarily for earthmoving equipment and other heavy-duty rolling stock applications. It meets the specifications of major OEM's including Caterpillar and Bucyrus International.

Caliber™ M has the extreme pressure capability to prevent wear in heavily loaded bushings and bearings.

Caliber™ 3M contains 3% solid lubricants and 5M contains 5%.

#### 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™ 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™ 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.

ASTM #		TYPICAL CHARACTERISTICS			
		Caliber™ 3M & 5M			
	Grade	EP 00	EP 0	EP 1	EP 2
D-217	<b>Cone Penetration</b> (Worked)	400-430	355-385	310-340	265-295
D-2265	<b>Dropping Point</b> , °F (°C)	450 (232)	450 (232)	472 (244)	507 (264)
D-445	<b>Kinematic Viscosity</b> (Base Oil + Polymer)				
	cSt @ 40°C	260.8	260.8	260.8	260.8
	cSt @ 100°C	17.1	17.1	17.1	17.1
D-455	<b>Kinematic Viscosity</b> (Base Oil)				
	cSt @ 40°C	139	139	139	139
	cSt @ 100°C	11.1	11.1	11.1	11.1
Gardner Method	<b>Density</b> , lb/gal @ 60°F (15.5°C)	7.59	7.59	7.59	7.53
D-2509	<b>Timken OK Load</b> , lb	65	65	65	65
D-2596	<b>Four Ball EP</b> Weld Point, kg (Minimum)	400	400	500	620
D-2266	<b>Four Ball Wear</b> , Scar Width, mm	0.46	0.46	0.46	0.46
D-1264	<b>Water Washout</b> , % Loss	Not Tested	Not Tested	Not Tested	<3.5
D-1743	<b>Rust Test</b>	1,1,1 (Pass)	1,1,1 (Pass)	1,1,1 (Pass)	1,1,1 (Pass)
D-4048	<b>Copper Strip Corrosion for Greases</b> 212°F (100°C) @ 3 hrs	1B	1B	1B	2B
(Modified)	<b>Low Temperature Pumpability</b> Lincoln Ventmeter @ 400 psi, °F (°C)	Not Tested	-20 (-30)	8 (-13)	23 (-5)
OEM Standard	<b>Ambient temperature range</b> , °F (°C)	--	-20 (-30) to 70 (20)	5 (-20) to 320 (160)	10 (-12) to 355 (180)

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

930 Whitmore Drive • P.O. Box 9300 • Rockwall, Texas 75087 • USA • (972) 771-1000 • Fax: (972) 722-2108

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Performance Under Pressure Since 1893

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