

MATRIX® M EXTREME-SERVICE GREASE with MOLY

Whitmore® Matrix® M is a calcium sulfonate complex grease with molybdenum disulfide that is highly recommended for difficult applications such as extreme pressure, water, heat, or chemical attack.

The thickener system itself has a protective effect, but the addition of moly creates a powerful layer of protection under conditions of extreme load and slow speed.

Whitmore Matrix M helps neutralize acids and also resists reacting with caustic materials. Whitmore Matrix grease has prevented corrosion despite years of exposure to phosphoric acid fumes.

A continuous temperature of 400°F (200°C) is within its safe range. It can withstand 550°F (288°C) continuously, provided the bearing is replenished every 30 minutes with normal quantities of grease. Occasional temperature spikes to 600°F (315°C) can be sustained for 5 to 10-minute periods without melting or carbonizing.

Whitmore Matrix M EP 2 meets the Bucyrus International specification for multi-purpose grease (SD 4711). Grades 1 and 2 meet standards KP0R -20, KP1R-20 and KP2R-10 per DIN 51502.

BENEFITS:

- **LONG LIFE** - reduced relubrication frequency.
- **WATER RESISTANT** - seals out water, even in underwater applications.
- **WEAR PROTECTION** – recommended for slow to medium speed bearings and bushings. Especially useful for very high load applications.

APPLICATIONS:

Water / Chemicals: Phosphate processing, suction and wet end rolls on paper machines, outdoor cranes and ship lifts, boat trailer wheel bearings and other marine applications.

Highly Loaded Equipment: Pellet mills, shaker screens, belt conveyor pulleys, slewing bearings, pin and bushing, centrifuges, hammer mills, bearings of cone crushers, sealed work roll bearings, fan bearings and many others.

High Temperature Applications: Oven conveyor bearings, plastic extruder bearings, rotary unions on roto-molders.

Automotive and Earthmoving Applications: Wheel bearings, U-joints, ball joints, pin-and-bushing pivot points and slewing bearings.

ASTM #		TYPICAL CHARACTERISTICS	
	Grade	EP 1	EP 2
D-217	Penetration Range	310-340	265-295
D-2265	Dropping Point, °F (°C)	460 (238)	500 (260)
D-445	Kinematic Viscosity (Base Oil) cSt @ 40°C cSt @ 100°C	125 12	125 12
D-445	Kinematic Viscosity (Base Oil w/Polymer) cSt @ 40°C cSt @ 100°C	800 47	800 47
Gardner Method	Density, lb/gal @ 60°F (15.5°C)	8.35	8.40
D-2596	Four Ball EP Weld Point, kg	800	800
D-2266	Four Ball Wear, Scar Width, mm	0.44	0.50
D-1264	Water Washout, % Loss	<8	<6
D-1743	Rust Test	Pass	Pass
OEM Standard	Low Temperature Pumpability Lincoln Ventmeter @ 400 psi, °F (°C)	12 (-11)	34 (1)

PACKAGING

Non-Returnable Plastic Tote	Drums	Kegs	Pails	Cartridges 50 Per Case
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For warranty information, scan the QR code.

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