

## TECHNICAL DATA SHEET



# M7002

## High Performance Grease

M7002 is highly recommended for difficult applications such as extreme pressure, water, heat, or chemical attack. Its thickener system has protective effects like molybdenum disulfide, thus protecting equipment from wear under difficult conditions of extreme load.

M7002 helps neutralize acids and resists reacting with caustic materials. It helps prevent corrosion despite years of exposure to phosphoric acid.

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.

M7002 is suitable for use in Caterpillar equipment under the category of “Water and Temperature Resistant Grease”.

M7002 EP 1 can be pumped in central lubrication systems at temperatures down to 14°F (-10°C). The TK 2 grade is designed for slow moving bearings under conditions of high contamination and load. This grade can be used in automatic lubrication systems at temperatures above 45°F (6°C). TK 2 can also be used down to 14°F (-10°C) in systems with short grease lines.

Ford Tox # 165359

### Applications

- Highly-loaded equipment – Pellet mills, shaker screens, belt conveyor pulleys, slewing bearings, pin and bushing, centrifuges, hammer mills, sealed work roll bearings, fan bearings and many others
- High-temperature operations – Tenter frame bearings (plastic & textile industries), oven conveyor bearings, plastic extruder bearings, rotary unions on roto-molders
- Water/ chemical operations – Phosphate processing, suction & wet end rolls on paper machines, outdoor cranes & ship lifts, boat trailer wheel bearings, and other marine applications

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### Benefits/ Advantages:

- Water resistant – does not deteriorate when water (including treated water) enters the body of the grease.
- Neutralizes acids and helps prevents corrosion
- High temperature – withstand 550°F (288°C) continuously (provided grease is replenished every 30-minutes)
- Exhibits long life – reduced frequency of relubrication
- Low bleed tendency – ideal for couplings and single point automatic lubricators.

ASTM #		TYPICAL CHARACTERISTICS		
		EP 1	EP 2	TK 2
<b>D-217</b>	<b>Grade</b> <b>Cone Penetration (Worked)</b>	EP 1 325	EP 2 290	TK 2 290
<b>D-2265</b>	<b>Dropping Point, °F (°C)</b>	>500 (260)	>500 (260)	>500 (260)
<b>D-445</b>	<b>Kinematic Viscosity (Base Oil w/ Polymer)</b> cSt @ 40°C cSt @ 100°C	150 12.1	150 12.1	320 24.0
<b>Gardner Method</b>	<b>Density, lb./gal @ 60°F (15.5°C)</b> <b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	8.0 0.96	8.17 0.98	8.30 1.00
<b>D-2596</b>	<b>Four Ball EP – Weld Point, kg</b>	800+	800+	800+
<b>D-2266</b>	<b>Four Ball Wear – Scar Width, mm</b>	0.48	0.45	0.45
<b>D-3527</b>	<b>Wheel Bearing Life Test – hours of life</b>	NA	260	NA
<b>D-1743</b>	<b>Rust Test</b> <b>Thickener Type</b> <b>Color</b>	Pass Calcium Sulfonate Green	Pass Calcium Sulfonate Green	Pass Calcium Sulfonate Green

- *The above are average values.*
- *A single test result may vary slightly without affecting performance.*