



Molysyn Manufacturing Co.

ISO  
9002  
Certified

# TECHNICAL DATA

102 Barton Street, St. Louis, USA

## # 200 MULTI-PURPOSE ULTRA-MOLY SYNTHETIC GREASE

**M-200** – is a premium multi-purpose bearing grease, specially formulated for all type Industrial & Automotive application to provide:

### FEATURES:

- Truly multi-purpose for all types of bearings.
- Excellent Adhesives and Cohesive properties.
- Excellent resistance under dirt, mud and water washout and water spray off.
- Excellent pumpability characteristics for use in centralised lube systems.
- Excellent shear and mechanical stability.
- Excellent anti-wear and extreme pressure load carrying properties.
- Excellent rust and oxidation inhibiting characteristics.
- Excellent oxidation resistance for longer service life.
- 100% reversibility. This property allows **M-200** to have the ability to retain its grease-like consistency and remain in the bearings during periods of heat, high shock loading, extreme pressure, and severe mechanical action.
- Form a tough film, avoid direct shocking damage.
- A high dropping point.

### PRODUCT INFORMATION:

**M-200-** is the finest multi-purpose grease blended with high viscosity index severely 100% Pure Paraffin base stocks, blended into these 100% pure paraffin base oils is an aluminium complex, thickener and additional selected additive. Included into this blend of high VI paraffin base stocks, aluminium complex thickener and selected additives is molybdenum disulfide. The molybdenum disulfide gives **M-200** the ability to act as a “ back-stop” lubricant when the grease base is either destroyed or wiped away due to unexpected loads, start-up or other conditions which exceed the capabilities of the grease base’s fluid lubrication. This “backstop” is created by molybdenum disulfide’s natural affinity for metal surfaces. The molybdenum disulfide plates to the metal surface to form a long lasting solid lubricant film. This solid lubricant film will withstand pressures up to 500,000 pounds per square inch, giving the metal surfaces of the bearings the protection they need during periods of high speed, high shock loads and extreme pressure.

**FRICITION & HEAT REDUCTION:** The Moly’s solid lubricant film also helps to reduce friction. The reduction in friction results in reduced wear and reduction in contact area temperatures. This in turn leads to increased equipment life, less downtime and extended lubrication cycles.

**ADHESIVENESS & COHESIVENESS:** **M-200** has excellent Adhesive properties. Because of these excellent adhesive properties, **M-200** will not wash out, pound out, splatter or squeeze out under the heaviest load or vibrations.



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**EXCELLENT LOW TEMPERATURE PERFORMANCE:** M-200's high VI base stocks won't thicken at low temperatures, nor does the synthetic gelling agent harden.

**WIDE TEMPERATURE RANGE:** M-200 has an outstanding wide temperature operating range from -12 C to 193 C and above.

**COMPLETELY WATER RESISTANT:** M-200 has excellent properties which protect against Water "Wash-out" and prevent contamination by dirt, mud and wet condition, this unique properties make the grease an ideal grease in presence of hot and cold water.

## APPLICATION:

Truly Multi-purpose, One Grease for all type of bearings, including plain bearings, heavily loaded journal bearings, ball and roller bearings, needle bearings, couplings, wheel bearings, disc brake, fifth wheels, U-joint, steering linkage, chassis and excellent for most automotive, construction, mining, farming and industrial equipment of excessive pressure, heat, cold, moisture, and high and low speeds.

## TYPICAL SPECIFICATIONS:

NLGI	00	1	2
Type Thickener	Aluminium Complex	Aluminium Complex	Aluminium Complex
Dropping Point F/C	520/270	520/270	520/270
Worked Penetration, 77 F/25 C	355-385	310-340	280-295
Rust Test ASTM D-1743	1,1,1	1,1,1	1,1,1
Water wash-out Test (ASTM D-1264) % Loss 175 F/79 C	-	4.2%	4.2%
Oxidation Stability Psi loss at 100 hr	1	2	2
Timken Ok Load ASTM D-2509, failure load, lbs	60	60	60
Four Ball Wear Test, Scan Diameter, mm ASTM D-2266	.68mm	.6 mm	.6 mm
Four Ball EP Test, ASTM D-2596, Load wear index (kg)	36.8	41.8	45.1
Base Oil Viscosity Viscosity SUS 100F (ASTM D-445)	615	1300	1300
Cst 40 C (ASTM D-445)	116.88	244.96	244.96
Cst 100 C (ASTM D-445)	12.38	19.71	19.71
Appearance	Black – Blue	Black – Blue	Black - Blue