



Molysyn Manufacturing Co.

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# TECHNICAL DATA

## # 240 NON-MELT HIGH TEMPERATURE TACKY GREASE

**M-240** - is a multi-purpose, extreme pressure antiwear, high temperature grease that is specially formulated for use in all types of heavy duty construction, mining, farming and industrial equipment that are being used in hot, wet or heavily loaded applications especially where operating temperatures is 315 C.

### FEATURES:

**M-240** - represent the “State of the Art” in grease technology, with an exceptional versatile out perform characteristics:

- Truly multi-purpose for all types of bearings.
- Extremely resistant to softening at high temperature.
- Exceptional High Load carrying properties - “MOLY”.
- Excellent Water “Wash – out” resistant.
- Enhanced with exclusive formulation of EP additive, additional protection from wear.
- Rust & Corrosion protection.
- Adhesive to metal surface.
- Excellent Adhesives and Cohesive properties.
- Excellent resistance under dirt, mud and water washout and water spray off.
- Excellent shear and mechanical stability.
- Excellent oxidation resistance for longer service life.
- 100% reversibility. This property allows **M-240** 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-240** is the finest multi - purpose grease blended with high VI paraffin base stocks, additional with the proven performance of powdered moly and enhanced with ” E. P additive to make the grease far out - perform from any other high technology greases in the market. Recommended for lubrication of kiln car wheel bearings, furnace door hinges, heat exchange motor bearings, oven conveyor chains and many other high temperature application .

**FRICITION & HEAT REDUCTION:** The major factor for the superiority of **M-240** is the unique anti - friction compound “Moly” (MOLYBDENUM DISULFIDE ), it plate metal surface with a thin “slippage planes” protection film, the film only one - million of an inch thick, and is more than sufficient to provide an extremely durable second layer of lubrication.

**HIGH TEMPERATURE PROTECTION:** Field performance proven that **M-240** has an excellent lubrication at temperatures exceeding 315 o C, with the Non-melt synthetic gelling agent that make the grease **won't melt** even at elevated temperature, and it won't ran off when the equipment is stopped, that help to reduce grease consumption, extended greasing interval.



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**EXCELLENT LOW TEMPERATURE PERFORMANCE:** M-240 's high VI base stocks won't thicken at low temperatures, nor does the synthetic gelling agent harden. M-240 will still perform lubrication well even at temperatures below -34 o C.

**WATER “WASH-OUT” RESISTANT:** The adhesiveness to metal surface that make M-240 resist water wash out, especially to lubrication at chassis, fifth wheel and water pump.

**OXIDATION INHIBITOR:** The natural oxidation resistance that allow the grease to retain its protective film strength and high temperature stability, to prevent forming harmful varnish, gums and other oxidation by - products as readily.

**CUT RUST & CORROSION:** The anti - corrosion additive will build a protecting shield to prevent from chemical attack at high temperature or in corrosive environment.

**VERSATILITY:** Recommended for lubrication of Kiln Car Wheel Bearings, Furnace Door Hinges, Heat Exchange Motor Bearings, Oven Conveyor Chains and Many other High Temperature application included roller, sleeve and pillow block bearings, ball joints and slide ways. It is a good replacement for sodium calcium and lithium based greases in unsatisfactory high temperature application. Is USDA “H2” Rating, acceptable for meat processing plant, poultry, rabbit, shell egg grading and egg products inspection program.

## TYPICAL SPECIFICATION:

NLGI Consistency	1	2
Type Thickener	Bentone	Bentone
Penetration, @ 77 o F ASTM Worked	310-340	285-295
Dropping Point, ASTM, o F	Non- Melt	Non- Melt
Soap Type	None	None
Molybdenum Disulfide, WT. %	1.0	1.0
Base Oil Data:		
VISCOSITY		
cSt @ 40 o C	226	282
cSt @ 100 o C	18.5	21.95
Timken Ok Load	60	60
4 - Ball Wear Test, Scan Diameter, Mm		
ASTM D – 2266	.68 mm	.68 mm
Rust Test, ASTM D – 1743	1	1
Oxidation Test, ASTM D – 942		
PSI Loss = 100HRS, MAX	4	4
PSI Loss = 500HRS, MAX	16	16
Falex Continuous Load (ASTM D-3233) Failure, lbs	1950	2000