220 EXTRA TACKY E.P. RED BEARING GREASE

M-220 – Is an Ultra Moly Extreme Pressure, High Shock and Water Resistant Red Bearing Grease for Heavy Duty and Severe Service Applications.

FEATURES:

M-220 – is designed for work under the toughest condition, with excellent mechanical and chemical stability performances, Heavy Duty, Automotive, Construction, Mining, Farming and Industrial Equipment.

- Tackiness agent that "stay in place", less greasing service.
- Excellent Adhesives and Cohesive properties.
- Excellent resistance under dirt, mud and water washout and water spray off.
- 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.
- Excellent reversibility. This property allows **M-220** 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.
- Excellent Adhesive properties in order to provide the **M-220** with the ability to resist wash out, pound out, splatter or squeeze out during periods of high loads, vibration, shock loading, extreme pressure and severe mechanical action.

PRODUCT INFORMATION:

M-220- 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-220** 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.

FRICTION & HEAT REDUCTION: The reduction in friction results and the ability to act as a "backstop" lubricant results in reduced wear and a reduction in contact area temperature. This in turn leads to increased equipment life, less downtime and extended lubrication cycles.

Molysyn Manufacturing Co.

ISO 9002 Certified

TECHNICAL DATA

102 Barton Street, St. Louis, USA

EXCELLENT LOW TEMPERATURE PERFORMANCE: M-220's high VI base stocks won't thicken at low temperatures, nor does the synthetic gelling agent harden.

WIDE TEMPERATURE RANGE: M-220 has an outstanding wide temperature operating range from -12 C to 193 C and above.

COMPLETELY WATER RESISTANT: M-220 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.

NEUTRALIZE ACIDIC: M-220 Contain unique natural "alkaline reserve" which help to neutralize acidic mixture and other corrosive residues.

APPLICATION:

It is an ideal Chassis Grease for "Off-Road" Trucks, Construction Equipment, Agricultural Equipment, Logging Equipment, Mining Equipment, Rock Crushers, Oil Field Equipment, Off-Shore Drilling Equipment and Marine Deck Equipment. It is recommended for Wheel Bearing, including Disc Brake Applications, Fifth Wheel, U-joint, Steering Linkage, Plain Bearings, Heavily Loaded Journal Bearings, Ball and Roller Bearings, Needle Bearings, Couplings, and Electric Motor Bearing.

TYPICAL SPECIFICATIONS:

NLGI	**1**	**2**
Type Thickener	Aluminium Complex	Aluminium Complex
Dropping Point F/C (ASTM D-2265)	520/270	520/270
Worked Penetration, 77 F/25 C	310-340	285-295
Rust Test ASTM D-1743	1,1,1	1,1,1
Water wash-out test (ASTM D-1264)% Loss 175 F/79 C	6.1%	6.1%
Oxidation Stability Psi loss at 100 hr	2	1.5
Timken Ok Load ASTM D-2509, failure load, lbs	65	65
4 Ball Wear Test, Scan Diameter, mm ASTM D-2266	.6 mm	.6 mm
4 Ball EP Test, ASTM D-2596, Load wear index (kg)	54.91	55.08
Base Oil Viscosity Viscosity SUS 100F (ASTM D-445)	1300	1198.2
Cst 40 C (ASTM D-445)	244.96	226.17
Cst 100 C (ASTM D-445)	19.71	18.89
Flash point F/C (ASTM D-92)	530/276.7	518/270
Appearance	Red	Red