



# 510M | Armor Plate with Moly-D

## Multipurpose XHP Gear Lubricant

#### **DESCRIPTION:**

A superior multipurpose gear, transmission and differential lubriant blended from the finest bodied pure petroleum base stocks available, Armor Plate with Moly-D XHP 510M is designed to meet the heavy requirements for military, fleet, farm, construction, and road equipment. This multipurpose gear lubricant provides greater lubricity and resistance to extreme pressure, shock impact, shearing, galling and structural failure of teeth or other vital components in gears, transmissions and differentials.

#### **COMPOSITION:**

510M is formulated with base stocks which are carefully selected oils and contain a wear preventing additive that provides anti-weld properties exceeding those described in performance tests by military specification MIL-L-2105E. The additional additive package increases the performance level in order to allow a safety margin in excess of the protection required by normal service.

It also contains:

- Adhesive/Cohesive Additives
- Anti-Foam Agents
- Pour Point Depressants
- Anti-Wear Additives
- Moisture Inhibitors
- Oxidation Stabilizers
- Seal Swellants
- Dispersant Additives
- Cooling Agents
- Corrosion Inhibitors

## PERFORMANCE CHARACTERISTICS:

Armor Plate with Moly-D XHP 510M meets and exceeds:

- MIL-L-2105E
- API Service Designations GL-2 through GL-5
- API MT-1
- Rockwell Standard 0-72, 0-73, 0-76, 076F
- L-33 Moisture and Corrosion Test
- L-37 High Torque Axle Test
- L-42 High Speed Axle Test
- L-60 Thermal Stability Test

- SAE J2360
- SAE Extreme Pressure Test
- Ford M2C105-A
- Ford M2C108-C
- Mack GO-J
- Oldsmobile-Buick Bump Shock Test
- Protection against low speed, high torque wear and high speed shockloads

510M is designed for hypoid gears that are subject to high-speed operating conditions and extreme pressure, providing increased anti-score protection exceeding that of Ford Reference Gear Oil L-1000.

Specific uses are for a high offset hypoid (less than 2.0 inches and approaching 25% of ring diameter). 510M can also be used in regular gears for maximum protection especially when using extended drain intervals and for thermal stability under operating temperatures in excess of 300°F.

**USES:** 

Armor Plate XHP 510M is recommended for use as service fill of axles, all manual transmissions, transfer cases or power dividers, all heavy duty hypoid and spiral bevel axles, limited slip differentials, most all automotive and industrial gears and as initial fill on conventional axles using phosphate treated gears where MIL-L-2105B products are specified.



### 510M Armor Plate with Moly-D Multipurpose XHP Gear Lubricant

#### **APPLICATIONS:**

This lubricant is available in three viscosities – SAE 80, SAE 90, or SAE 140. The SAE weight selected for most any particular piece of equipment should correspond with the recommended SAE weight indicated in the owner's manual or Check Chart.

Armor Plate 510M will blend readily with most any approved petroleum base gear lubricant of the same SAE weight; however, it delivers optimum performance when used exclusively in any gear box or application to which it is introduced.

### TYPICAL SPECIFICATIONS:

|   | SAE 80                | SAE 90                | SAE 140               |
|---|-----------------------|-----------------------|-----------------------|
| Gravity                                     | 29.1                  | 27.0                  | 25.7                  |
| Flash Point, °F                             | 505                   | 515                   | 570                   |
| Fire Point, °F.                             | 555                   | 565                   | 635                   |
| Pour Point, °F.                             | -15                   | -10                   | 0                     |
| Viscosity Index                             | 97                    | 92                    | 92                    |
| Foam Test                                   | Excellent,<br>No Foam | Excellent,<br>No Foam | Excellent,<br>No Foam |
| Corrosion, 3 hrs. @ 212°F.                  | Pass                  | Pass                  | Pass                  |
| Precipitation Number Timken Load Test, lbs. | None                  | None                  | None                  |
| 510M  | 50                    | 50                    | 55                    |

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