



## Technical Supplement

# 357 Armor Plate with Moly-D Magnum (Supplementary Performance Data)

Armor Plate with Moly-D Magnum Multi-purpose Grease, like all our green Moly-D products, is a rich green in color. This is due to the fact that the Moly-D in it is a compound which differs from black molysulfide in that it has dramatically superior anti-wear and anti-oxidant properties in side-by-side test results. In addition, it has excellent thermal stability at extremely high temperatures.

In oxidation stability tests, Armor Plate with Moly-D Magnum went 18 times as long as the same grease with molysulfide before breaking down.

Moly-D gives 357 increased extreme-pressure capability. Moly-D held up 300 times as long as molysulfide under a Timken Endurance Load.

The Shell 4-Ball Wear Test showed that Moly-D allowed over 35% less wear than molysulfide and withstood over twice as much pressure.

The final grease temperature in the above test was 141°F. with molysulfide compared to only 127°F. with Moly-D.

Moly-D has been found superior to molysulfide in an automobile manufacturer's spline test. Prior to this test, molysulfide was considered best in a grease for this application.

Saginaw Steering Gear Division of General Motors Spec. No. 5695183 covers a universal joint lubricant containing the Moly-D type additive. This specification replaced one which required 4 times as much molysulfide. The Moly-D content of Armor Plate Magnum 357 meets this specification.

Ball joint wear tests showed Moly-D superior to molysulfide after 250,000 cycles and 400 oscillations per minute.

Tests conducted by Rock Island Arsenal showed that Moly-D can reduce fretting corrosion by 50%.

Armor Plate with Moly-D Magnum can be used in bearings for conveyor belts in kilns where constant temperatures of 350°F. are encountered.

Armor Plate with Moly-D Magnum is truly a versatile and multi-purpose grease for all applications. Its all-around performance is unsurpassed in all areas of industrial, automotive, farm machinery, mining, logging and oilfield applications