

327**Armor Plate with Moly-D****Multipurpose Grease**

Description: Armor Plate with Moly-D is a rich green moly grease which provides excellent stability and unsurpassed performance under a wide range of temperatures and operating conditions. Armor Plate grease is entirely unique due to the fact that the moly in it is solubilized which provides superior performance to other greases containing the black solid form of moly, molybdenum disulfide.

Composition: Armor Plate is a non-soap base grease made with a heat resistant organo-clay thickener and a new moly compound which has proven superiority over the more common form of moly which is used in most other moly greases. It also contains EP, rust and corrosion inhibitors and anti-oxidant additives.

Performance Characteristics: Armor Plate is a truly versatile and multipurpose grease for all applications. Its extreme-pressure and anti-wear performance is unsurpassed in all areas of industrial, automotive, farm machinery and other off-road applications.

Moly-D outperforms moly sulfide in side-by-side test results, exhibiting superior anti-friction and anti-oxidant properties. It also has excellent thermal stability at extremely high temperatures.

Wear tests show that Armor Plate allows much less wear and gives increased load carrying capability while lowering grease operating temperatures in actual service.

Armor Plate can characteristically be used as a "high temp" lubricant for a wide range of applications where the "non-melt" feature of the grease will prevent loss of the lubricant due to melting where the bases of other greases actually turn to liquid. It is engineered to resist rust, oxidation and corrosion while reducing wear and keeping operating temperatures down. In addition, it has exceptional water resistance and is compounded into a tacky, buttery consistency for excellent adhesion to parts to be lubricated.

Armor Plate is available in both No. 1 and No. 2 NLGI grades. No. 2 has a relatively heavy consistency, but No. 1 has a considerably softer consistency for certain applications such as excellent pumpability at sub-freezing temperatures and automatic lubrication.



Uses: Especially recommended for heavy duty multipurpose applications which include but are not limited to:

Ball Joints	King Pins	Ball and Roller Bearings
Sleeve Bearings	Pillow Blocks	Fifth Wheels
Oven Conveyors	Sugar Cane Cutters	Sliding Surfaces
Cranes	Drag Lines	Wheel Bearings

Applications:	Farms	Drilling Rigs
	Construction Companies	Cotton Gins
	Steel Mills	Bottling Plants
	Sugar Refineries	Feed Lot Operators
	Barges	Industrial Companies
	Lumber Mills	Mines
	Asphalt Plants	Ditch Diggers

Typical Specifications:	<u>NLGI Grade</u>	<u>No. 2</u>	<u>No. 1</u>
	Type Thickener	Organo-clay	Organo-clay
	Worked 60 Penetration, ASTM D217	265-295	310-340
	Dropping Point, ASTM D2265	None(non-melt)	None(non-melt)
	Texture	Smooth, Tacky	Smooth, Tacky
	Color	Dark Green	Dark Green
	Water Resistance	Excellent	Excellent
	Rust Prevention Test	Pass	Pass
	Oxidation Stability, ASTM D942		
	psi loss @ 100 hrs	5 max	5 max
	Copper Corrosion Test, ASTM D4048	1b	1b
	Timken OK Load, lb, ASTM D2509	65	65
	Timken Endurance, 10 lb load, hrs	5	5
	Four Ball Wear, ASTM D2266		
	Wear Scar, mm	.45	.45
	Four Ball EP, ASTM D2596		
	Weld Load, kg	315	315
	Load Wear Index, kg	58	58

<u>Base Oil Properties:</u>	<u>No. 2</u>	<u>No. 1</u>
Viscosity,		
cSt @ 40 °C, ASTM D445	512	116
cSt, @ 100 °C, ASTM D445	33	12.4
SUS @ 100 °F, ASTM D2161	2752	610
SUS @ 210 °F, ASTM D2161	160	69
Viscosity Index, ASTM D2270	97	96
Flash Point, °F(°C), ASTM D92	606(319)	520 (270)
Pour Point, °F(°C), ASTM D97	16(-9)	10 (-12)