



Molub-Alloy 968 SF Heavy

Multiservice Lubricant

Description

Molub-Alloy™ 968 SF Heavy is a heavy duty, non solvent containing multiservice lubricant designed for use in heavy duty applications. It is formulated to withstand the most severe environments, which may include extreme heat and dust in the summer, as well as in inclement weather, in rain, snow, sleet in winter. Molub-Alloy™ 968 SF Heavy also performs extremely well in underwater applications, with condensation, as well as seawater. Formulated to address environmental concerns, Molub-Alloy™ 968 SF Heavy is free of lead, antimony, zinc, barium and chlorinated solvents.

- A highly refined, viscous, paraffinic petroleum derivative is the foundation of a blended base fluid with excellent natural chemical and thermal stability. Molub-Alloy™ 968 SF Heavy is compounded to flow readily in the film forming process; yet it resists "squeeze-out" and clings tenaciously even to gear teeth in vertical orientation.
- A proprietary blend of Molub-Alloy™ lubricating solids is included to promote antiwear and load carrying properties beyond those of conventional lubricants. The select lubricating solids work synergistically with chemical antiwear and extreme pressure (EP) additives, to reduce contact temperatures, while providing excellent antiweld protection under extreme pressure and shock loading.
- Rust and oxidation inhibitors are included in the formulation to protect the equipment and lubricating film against the elements in severe climates. The select grade and size distribution of the lubricating solids are intended to provide Molub-Alloy™ 968 SF Heavy with multiservice characteristics for applications ranging from heavy duty open gears, to antifriction and Journal bearings.

Application

- Molub-Alloy™ 968 SF Heavy is designed to perform as a multiservice lubricant in applications such as: Open Gearing, Racks and Pinions, Rails and Rollers, Sluice door hinges, Seawater gate spindles, Screw conveyor bearings, Salt dredging applications, Shipyard applications, Large Journal and Antifriction Bearings, Low Velocity Semi-Enclosed Gears, Offshore applications (e.g. Christmas trees, drill heads) and Jacks (Drills).
- Molub-Alloy™ 968 SF Heavy may be applied manually or more precisely and economically through automatic dispensing equipment.

Advantages

- Compounded for the protection of the ecology the elimination of hazardous materials.
- Tough Durable Film - resists erosion from rain and sleet, resists peeling in dusty environments.
- Resists Packing from Dust - even in dusty environments Castrol Molub-Alloy® 968 SF resists packing at the gear roots and remains mobile. The spent lubricant stays pliable to facilitate removal from gear guards and semi-enclosed gear cases.
- Multiservice - used in a variety of outdoor applications. Reduces product inventory and minimizes risk of product contamination or misapplication.

Typical Characteristics

Name	Method	Units	Molub-Alloy 968 SF Heavy
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	310-340
Dropping point	ISO 2176 / ASTM D566	°C/°F	>180 / 356
Density @ 15°C / 59°F	ASTM D4052 / DIN 51757D	kg/m ³	970
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	978
Water Resistance	DIN 51807-1	Rating	0
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1
Rust Test - EMCOR (distilled water)	ISO 11007 / ASTM D6138	Rating	0/0
Four Ball Wear test - Weld Load	DIN 51350-4A	N	6000/6500
Four Ball Wear test - Wear Scar Diameter	DIN 51350-5E	mm	<0.8
Flow pressure @ -10°C / 14°F	DIN 51805	mBar	240

Additional Information

Castrol Molub-Alloy™ 968 SF Heavy is not intended for use in the following applications:

- "U"-Joints of off-highway vehicles.
- As a general industrial bearing grease operating continuously at elevated speeds i.e., motor bearings.

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