



Product Data

## Molub-Alloy™ OG 968 SF Heavy

Multiservice Lubricant

### Description

Castrol Molub-Alloy™ OG 968 SF Heavy (previously called 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 OG 968 SF Heavy performs also extremely well in underwater applications, with condensation, as well as seawater. Formulated to address environmental concerns, Molub-Alloy OG 968 SF Heavy is free of lead, antimony, zinc, barium and chlorinated solvents. No solvents of any kind are used in Molub-Alloy OG 968 SF Heavy Multiservice Lubricants.

- A highly refined, viscous, paraffinic petroleum derivative is the foundation of a blended base fluid with excellent natural chemical and thermal stability. Molub-Alloy OG 968 SF Heavy is compounded to flow readily in the filmforming 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 OG 968 SF Heavy with multiservice characteristics for applications ranging from heavy duty open gears, to antifriction and Journal bearings.

### Application

- Molub-Alloy OG 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, Saltdredging 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 OG 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 OG 968 SF Heavy 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 OG 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 / ISO 12185 / DIN 51717D	kg/m³	970
Base Oil Kinematic Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm²/s	978
Water Resistance	DIN 51807-1	Rating	0
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D130 / ISO 2160	Rating	1
Rust Test - EMCOR (distilled water)	ASTM D6138 / ISO 11007	Rating	0/0
Four Ball Wear test - Weld Load	DIN 51350-2	N	6000/6500
Four Ball Wear test - Wear Scar Diameter	DIN 51350-5E	mm	<0.8
Flow pressure @ -20°C / -4°F	DIN 51805	mBar	< 1000

## Additional Information

Castrol Molub-Alloy OG 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.

**This product was previously called Molub-Alloy 968 SF Heavy. The name was changed in 2015.**

Molub-Alloy™ OG 968 SF Heavy

12 Jan 2018

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

BP Lubricants USA Inc., 1500 Valley Road, Wayne, NJ 07470  
 Telephone: +1-888-CASTROL Product Information: +1-877-641-1600  
[www.castrol.com/en\\_us/b2b/home.html](http://www.castrol.com/en_us/b2b/home.html)