

# Castrol Molub-Alloy 9030

Grease

## Description

High performance Molub-Alloy 9030 Grease is a multi-service lubricant designed to extend the service life of bearings in heavy duty applications and at elevated temperatures. Molub-Alloy 9030 Grease is intended to provide a heavier oil film for applications with excessive loading at slow speeds and when higher temperatures are sustained for longer periods of time. This grease matches the rugged service requirements associated with plants producing primary metals, chemicals, cement, glass and paper.

The following performance characteristics were emphasized in the development of the Molub-Alloy 9030 Grease:

- Higher viscosity base oil, ISO VG 460, to increase the load carrying capacity;
- Temperature stability to withstand elevated and intermittently high temperatures (dropping point over 500°F/260°C);
- Shear stability to increase the service life of precision antifriction bearings;
- Resists washing action of water and contains a combination of corrosion inhibitors;
- Castrol Performance Lubricants' Eco-Solutions product offering. Formulated to address environmental concerns, Molub-Alloy 9030 is free of lead, solvents, antimony and barium.

A heavy, temperature stable base oil, ISO Viscosity Grade 460, supported by a unique, new polyurea thickening system maintains a constant lubricating film resistant to the effects of heat, heavy and shock loadings, and the incursion of airborne contaminants and the impingement of process water.

Molub-Alloy 9030 Grease is compounded with oxidation and corrosion inhibitors to assure protection against rust and allow for extended relubrication cycles, and in some well sealed applications for non-relubricated service.

A high performance chemical additives system works synergistically with select lubricating solids which are dispersed uniformly throughout the grease. These lubricating solids offer their greatest benefit at slow speeds or where bearings must endure heavy loads and shocks.

## Application

Molub-Alloy 9030 Grease should be used when loads are heavy, temperatures are elevated and speeds are slow.

Multi-purpose in nature, Molub-Alloy 9030 Grease can be used for general plant lubrication in most applications including antifriction and journal bearings, slides, screws and other applications where superior adhesion is required.

## Advantages

- Lubricating solids permit extending the lubrication interval while providing an extra measure of antiwear protection.
- Molub-Alloy 9030 Grease is formulated to withstand extreme pressures and heavy shock loads.
- Molub-Alloy 9030 Grease passes severe rust tests and provides protection from corrosive moisture action.

## Typical Characteristics

	Test Method	Unit	9030-0	9030-1
Worked Penetration	-	-	355 – 385	310-340
NLGI Grade	-	-	0	1
Thickener Type	-	-	Polyurea	Polyurea
Dropping Point	ASTM D 2285	°C/°F	> 500/260	544
Rust Test	ASTM D1743	Pass/Fail	Pass	Pass
Base Fluid Viscosity	ASTM D445, D2161, cSt	@ 104°F/40°C	486	486
Base Fluid Viscosity	ASTM D445, D2161, cSt	@ 212°F/100°C	31.8	31.8
Timken EP Test	ASTM D 2509	OK Value, kg/lbs	25/55	25/55
Four Ball EP Test	ASTM D 2596	Weld Load, kgf	315	400
Four Ball EP Test	ASTM D 2596	Load Wear Index, kg	127	120
Four Ball Wear Test	ASTM 2266	Scar Diameter,mm	0.55	0.5
Lincoln Ventmeter	psi	@ 10°F/12.2°C	400	340@20°F
Lubricating Solids	-	-	Present	Present

Subject to Usual Manufacturing Tolerances.

## Additional Information

Molub-Alloy 9030 Grease is generally compatible with other grease types. However, when replacing other grease without complete removal of the grease in use, it is important to observe the application until stability is assured during the changeover period.

For specific terms, conditions, warranty and availability, refer to the Castrol Performance Lubricants' price list in effect at time of purchase.

Castrol, Molub-Alloy, and the Castrol logo 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.

Castrol Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, UK  
[www.castrol.com/industrial](http://www.castrol.com/industrial)  
[www.castrol.com/industrial](http://www.castrol.com/industrial)