



MOLUB-ALLOY[®] 882 EP OPEN GEAR GREASES

Product Data Sheet

Molub-Alloy 882 EP Open Gear Greases are multi-functional lubricants developed to provide the extra protection required to lubricate surfaces that are subjected to extreme rubbing action and contact pressures. Typical applications include machine ways and guides, transfer slides, acme threads, gear racks and open gear drives. They may also be used in heavily loaded, slow rotating components such as plain spherical bearings, plain bearings and bushings. When properly applied, Molub-Alloy 882 EP Open Gear Greases form a tenacious semi-dry coating that is highly resistant to water wash and debris buildup.

A select petroleum oil of high viscosity, modified with other petroleum derivatives forms an exceptionally tough film in service, which, even at elevated temperatures, resists the thinning and hardening associated with conventional pastes and asphaltic type compounds.

A proprietary blend of Molub-Alloy solid film lubricants constitutes a major part of Molub-Alloy 882 EP Open Gear Greases. They function synergistically with additional extreme pressure components to provide the necessary protection in severe service. Even the unique thickening system in these greases is a contributing solid lubricant.

DESCRIPTION

Components are selected for the manufacture of Molub-Alloy 882 EP Open Gear Greases based on quality, compatibility, and particularly for their intended use. The Molub-Alloy solid lubricants are of a proven combination and size distribution for use on sliding mechanisms subjected to high contact pressures.

Extreme pressure properties are maximized by the use of the most effective, non-corrosive EP agents available. They complement the anti-wear, anti-seize performance of Molub-Alloy solid lubricants in protecting against severe load conditions and in higher than normal ambient temperatures.

Components, including the thickening system, were selected to constitute a product which will not drip or fling-off even at very high temperatures (over 400°F).

APPLICATIONS

Typical applications for Molub-Alloy 882 EP Open Gear Greases include open gears subjected to high torque and slow surging loads, and guide devices such as metal forming press slideways and the tie bars of die casting machines. They are especially suitable for use in applications involving elevated ambient temperatures or water wash conditions.

Application of Molub-Alloy 882 EP Heavy may be by brush, paddle, or pressurized lubrication spraying devices. Where dispensing lines are long or ambient temperatures low, the use of Molub-Alloy 882 EP Arctic is suggested.

ADVANTAGES

Wear protection beyond that of conventional heavy-duty greases is provided by Molub-Alloy solid film lubricants together with chemical extreme pressure additives. There has been evidence of worn and even newly machined metal surfaces having improved in service under boundary lubricating conditions.

Unlike heavier asphaltic compounds or pastes, the Molub-Alloy 882 lubricating film is highly resistant to the retention of abrasive particles from the environment

Non-melt, non-drip characteristics minimize application and housekeeping costs.

Highly resistant to hot and cold water wash.

Savings can be derived from through reduced labor and downtime, smoother, more efficient operation, longer parts life, and reduced lubricant usage.

NOTES

Because of the cleansing action of Molub-Alloy 882 Greases, components that have become encrusted while using conventional lubricants may require adjustment following initial use of these products.

The Special base of Molub-Alloy 882 EP Greases makes them compatible with all lubricants normally applied to sliding components and open gears. It is advisable; however, to increase lubricant application cycles gradually to ensure complete removal of the previous lubricant and the establishment of a surface layer of Molub-Alloy lubricating solids.

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

Please see Reverse Side for Typical Properties

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MOLUB-ALLOY 882 EP 12-99 –R06
Formerly PDS 779-6 12/99

Molub-Alloy[®] *Optimol*[®] *Tribo*[®]

TYPICAL PROPERTIES	Arctic	Heavy
NLGI Grade	0/00	1-1/2
Worked Penetration, ASTM D 217, mm/10	390-420	290-320
Thickener Type	Ashless Inorganic	Ashless Inorganic
Specific Gravity, ASTM D1298	0.9744	0.9828
Dropping Point, ASTM D 566, °F/°C	N/A	500+/260+
Base Fluid Properties		
Viscosity D 445, D 2161:		
@ 40°C	143	285
@ 100°C, cSt	12.6	16
@ 100°F, cSt/SUS	163/760	355/1550
@ 210°F, cSt/SUS	12.5/69	16.8/85
Flash Point, ASTM D 92, °C/°F	216/420	232/450
Oxidation Stability, ASTM D 942,		
Pressure drop @ 100 hrs., psi/kPa	2/14	2/14
Pressure drop @ 300 hrs., psi/kPa	10/69	10/69
Water Washout, ASTM D 1264		
@ 175°F/79°C, % loss	N/A	5
Rust Prevention Properties, ASTM D 1743, rating	Pass	Pass
Worked Penetration, ASTM D 217,		
100M strokes, mm/10		
% change from 60 strokes	5	4
Lincoln Ventmeter:		
psi @ 70°F/21°C	Below 100	150
psi @ 30°F/-1C	Below 100	-
psi @ 0°F/-18°C	Below 220	-
Oil Separation, ASTM D 1742, %	N/A	2.7
Four Ball EP Test, ASTM D 2596:		
Load Wear Index, kg	51	70
Weld Load, kg	315	500
Molub-Alloy Solids, Grade Classification	Open Gear	Open Gear

Subject to usual manufacturing tolerances.