



## Molub-Alloy 6080/150-1.5

High-performance Grease

### Description

Castrol Molub-Alloy™ 6080 grease is a High Performance multi-service lubricants designed to give outstanding performance in a wide variety of applications. It may be used in either journal or antifriction bearings in the most demanding industrial applications under extreme environmental conditions.

Molub-Alloy 6080 is manufactured from the highest quality petroleum oil and thickened with a unique calcium complex sulphionate unsurpassed for mechanical shear stability.

Molub-Alloy 6080 grease is compounded with chemical additives for EP characteristics and with select Molub-Alloy lubricating additives for thin-film, high-pressure anti-wear protection. These additives are dispersed evenly throughout the grease and provide superior protection against component wear, resulting in long service life.

It is also inhibited against high temperature oxidation and corrosion, and blended and compounded to withstand the heavy loads and shock loading commonly found in the steel/primary metals, construction, mining, and forest products industries.

The lubricating solids work synergistically with chemical anti-wear and extreme pressure (EP) additives to reduce contact temperatures and wear whilst providing the ultimate in extreme pressure and shock load anti-weld protection

### Application

Typical applications for Molub-Alloy 6080 grease is bearings that are under heavy water or aggressive process fluid contamination.

### Advantages

- The load carrying and anti-wear capabilities of Molub-Alloy 6080 exceed conventional complex greases.
- Excellent friction reduction characteristics due to Molub-Alloy solid lubricants – easier start-up, reduced heat, and reduced energy leading to longer bearing life.
- Molub-Alloy 6080 multi-service greases offer excellent oxidation resistance and resist washing out, even under adverse water contamination. This product has been designed to work with aggressive process waters.
- Reduced friction due to the effect of the Molub-Alloy additives is most evident under boundary and mixed-film lubrication conditions. This benefit is most pronounced where frequent start up, slow speeds or high and unexpected heavy loads are encountered.
- Overall savings are derived from the above and result from less labor and downtime, smoother, more efficient operation with longer parts life and extended lubrication cycles.

## Typical Characteristics

Name	Method	Units	Molub-Alloy 6080/ 150-1.5
Colour	Visual	-	dark grey
NLGI Class	DIN ISO 2137	-	1.5
Appearance	Visual	-	Homogenous
Thickener Type	-	-	Calcium sulphonate complex
Base oil type	-	-	Mineral Oil
Consistency	ISO 2137 ASTM D217	NLGI Grade	1.5
Worked Penetration (100,000 strokes @ 25°C) - change from 60 strokes	ASTM D217	0.1 mm	10 max
Base oil Viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	150
Base Oil Viscosity @ 100°C	ASTM D445	cSt	11
Shell Roll Stability 2h/25°C	ASTM D1831	0.1 mm	<10
Wet Roll Stability, 2h/25°C, 10% water	ASTM D1831 modified	%	<10
Copper Corrosion, 24hrs @ 100C	ASTM D4048	Rating	1 b max
Four Ball Weld Load	DIN 51350:4 ASTM D 2596	kgf	>500
Four ball wear scar, 1 hour at 75°C & 40Kg	ASTM D2266	mm	<0.6
Dropping Point	ASTM D2265	°C	>260
Oil Separation, 168h @ 40°C	DIN 51817	% wt	<2
Rust Test - EMCOR (distilled water)	DIN 51802	Rating	0/0
Emcor Corrosion Test Synthetic Sea Water	DIN 51802	Rating	1/1
Water Wash-out (1 hr/79°C)	ASTM D1264	% wt loss	5 max
Grease Pumpability Test - Lincoln Ventmeter	In-house	pSi	<1000
Flow pressure at -20°C	DIN 51805	hPa	<650

Subject to usual manufacturing tolerances.

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