



Molub-Alloy™ 6282/460-1

Heavy-duty Industrial Greases

Description

Castrol Molub-Alloy™ 6282 greases are formulated with highly refined petroleum base oils using a calcium-complex sulfonate thickener for heavy-duty and demanding industrial applications. They are compounded with select additives for extreme pressure, thin-film, and anti-wear protection.

Castrol's calcium complex sulfonate thickening system has good antioxidant and rust-inhibiting properties, along with high dropping points and extreme pressure EP/anti-wear characteristics

Application

Molub-Alloy 6282 may be used in journal or antifriction bearings in applications with extreme environmental conditions such

as steel rolling mills and continuous casters where water resistance is critical. Molub-Alloy 6282 greases have excellent water resistance and perform well in aggressive process water environments.

Advantages

- Excellent water resistance: Coating film stays on the surface even in presence of water; even when exposed to the action of hot and chemically active process water.
- Good EP and anti-wear properties: Protects equipment against extreme loading and helps minimize bearing component wear
- Excellent mechanical stability: Helps reduce product consumption in high volume applications
- High dropping point: Withstands breakdown in high temperature applications
- Good oxidation resistance: Prevents corrosive activity on bearings in aggressive process water environments
- Suitable for applications utilizing both ferrous and non-ferrous metallurgies
- Formulated to address environmental concerns: Free of antimony, barium, lead, and zinc

Typical Characteristics

Name	Method	Units	Molub-Alloy 6282/460-1
Appearance	Visual	-	Smooth
Color	-	-	Amber
Thickner Type	-	-	Calcium Complex Sulfonate
Base Oil Type	-	-	Mineral
Consistency	ISO 2137/ ASTM D217	NLGI	1
Density	ASTM D1475	g/ml	0.96
Worked Penetration 60 strokes @ 25°C / 77°F	ISO 2137/ASTM D217	0.1 mm	310 - 340
Base oil Viscosity: @ 40°C / 104°F @ 100°C / 212°F	ISO 3104/ ASTM D445	mm ² /s	460 30.1
Dropping point	ISO 2176/ ASTM D2265	°C/°F	260 / 500
Rust Test, 48 hrs @ 52°C / 126°F	ASTM D1743	Rating	Pass
Copper corrosion, 24 hrs, 100°C / 212°F	ISO2160/ASTM D4048	Rating	1b
Oxidation Stability of Grease, 500 hrs @ 99°C	ASTM D942	pSi	2
Oil Separation, %	ASTM D1742	%	0.17
Four Ball EP , Weld Load	ASTM D2596	Kg	500
Four Ball Wear Test, Scar	ASTM D2266	mm	0.40
Water Washout, 79°C / 175°F	ASTM D1264	% loss	2.5

Subject to Usual Manufacturing Tolerances.

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Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

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