



Product Data

Molub-Alloy 243 Arctic

Arctic Grease

Description

- Castrol Molub-Alloy™ 243 Arctic Grease is intended for use in plain and anti-friction bearings operating in freezing environments down to -35°C.
- For effective lubrication in very cold temperatures, a primary requirement of grease is that it remain soft and pliable, especially in rolling element bearings. Stiff grease in anti-friction bearings can prevent rolling at start-up or allow skidding during operation, possibly resulting in damage and early failure.
- Of equal importance for greases in very cold regions is the ability to protect against corrosion. As temperatures drop from daytime operation to overnight freezing, moisture from the air is precipitated on the cooling metal surfaces. Bearings experiencing wide temperature fluctuations are particularly subject to corrosive attack.
- Molub-Alloy 243 Arctic Grease fulfills these most difficult requirements as a truly multi-service grease for transportation and industrial operations in very cold environments. The high quality base oils and thickening system used in Molub-Alloy 243 Arctic Grease were selected for their combined ability to maintain a good working consistency throughout a wide temperature range. The product is inhibited against oxidation, and particularly against corrosion as a major hazard of the low temperature service for which it was designed

Application

- May be used as a multi-service lubricant through the broad range from -35°C to 107°C.
- Applications include journal bearings as well as antifriction bearings found in pumps, motors, conveyors, etc.
- Common applications are in transportation and material handling equipment, whether in arctic regions or in refrigerated areas in general industry.
- Applications at low temperatures should be made manually. Automatic dispensing equipment may be used at higher temperatures, as with greases of similar consistency.

Advantages

- Maintains good working and staying consistency over suggested use range.
- Excellent protection against corrosion in presence of condensing moisture.
- Realistic energy savings are possible through a reduction in peak power demand during cold startup.
- 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 243 Arctic
Thickener Type	-	-	Calcium
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	285-315
Dropping Point, Grease	ISO 2176 / ASTM D566	°C/°F	> 140/284
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm²/s	25
Rust Test - EMCOR (distilled water)	ISO 11007 / ASTM D6138	rating	0/1 max
Oxidation Stability-Rapid Oxygen @140°C	ASTM D8206	min.	800
Flow Pressure (Greases) -35°C	DIN 51805	hPa	400
Oil Separation (168 hrs, 40°C)	DIN 51817	%w t	5
Four Ball wear scar	ASTM D2266	mm	0.5
Four Ball Wear Load test - Weld Point	ASTM D2596	kgf	250 pass
Copper Corrosion, 24hrs @ 100°C	ASTM D4048	rating	1b

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