



Molub-Alloy 2115

High temperature grease

Description

Castrol Molub-Alloy 2115 grease is a thermally stable high temperature synthetic bearing lubricant. It is formulated from an advanced synthetic fluid and thickened with a temperature stable non-soap base. Molub-Alloy 2115 includes a blend of performance additives and Molub-Alloy lubricating solids for exceptional wear protection and is designed to greatly extend service life and relubrication intervals in high temperature bearings, compared to conventional greases.

Application

Primarily developed for extended service in oven conveyor bearings, Molub-Alloy 2115 is recommended for bearings operating in paint drying ovens, textile tentering frames, and similar applications where minimum reapplication and drip-free performance is required. Molub-Alloy 2115 can be used in continuous service at 250°C/482°F and may be exposed to intermittent temperatures up to 280°C/536°F. Forced draft ventilation should be used at temperatures exceeding 200°C. Molub-Alloy 2115 can be applied manually or with automatic dispensing equipment.

Advantages

- Thermally and chemically stable – high resistance to oxidation at high temperatures therefore extending relubrication intervals without undue risk of under lubrication, lubrication starvation, or an increase in power draw.
- Virtually inert below 300°C/572°F- resists the thickening and hardening that is typical of petroleum greases in high temperature service.
- Even at high temperatures (refer application section), Molub-Alloy 2115 is resistant to most non-fluorinated solvents and most chemicals, including strong acids, alkalis and oxidising agents.
- Low volatility - does not volatilise readily at high temperatures and/or when exposed to high vacuum.

Typical Characteristics

Name	Method	Units	2115-0	2115-2
Appearance	Visual	-	White	White
Thickener type	-	-	PTFE	PTFE
Base oil	-	-	PFPE	PFPE
Consistency	ISO 2137/ASTM D217	NLGI Grade	0	2
Density @ 20°C / 68°F	in-house method CIP 19	kg/m ³	1970	1990
Unworked Penetration (@ 25°C / 77°F)	ISO 2137/ASTM D217	0.1 mm	355-385	265-295
Base Oil Viscosity @ 40°C / 104°F	ISO 3104/ASTM D445	mm ² /s	510	510
Base Oil Viscosity @ 100°C / 212°F	ISO 3104/ASTM D445	mm ² /s	46	46
Base Oil Viscosity @ 200°C / 392°F	ISO 3104/ASTM D445	mm ² /s	6.5	6.5
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	-	1b
Evaporation Loss (24 hrs @ 232°C / 450°F)	DIN 58397	%wt	-	1.0
Flash Point Base Oil - open cup method	ISO 2592/ASTM D92	°C/°F	None	None
Pour Point Base Oil	ISO 3016/ASTM D97	°C/°F	-20/-4	-20/-4

Subject to usual manufacturing tolerances.

Additional Information

Molub-Alloy 2115 should not be mixed with other greases or oils. In case of doubt please consult your local Technical Services. Molub-Alloy 2115 has a very low order of toxicity at room temperature with no significant irritation to skin or eyes.

- At 200°C/392°F, small quantities of toxic fumes are generated. The use of 2115 above 200°C is not recommended without the use of forced draft ventilation
- At 300°C/572°F, 2115 decomposition begins to accelerate, and small amounts of highly toxic, potentially acidic vapours are formed. Positive draft ventilation to the atmosphere is essential

Clean-up may be difficult because of the excellent resistance to ordinary cleaners and solvents. However, there are some industrial cleaners (fluorinated solvents) which can be used effectively.

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

www.castrol.com/industrial