



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.

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 – unparalleled 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/575°F – resists the thickening and hardening that is typical of petroleum greases in high temperature service.
- Even at high temperatures, Molub-Alloy 2115 is resistant to organic 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.
- Formulated to address environmental concerns – it is free of lead, chlorinated solvents, and barium

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	ASTM D4052	kg/m ³	-	1930
Worked Penetration (60 strokes @ 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	500
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
Four Ball Weld Load test - Weld Point	ISO 11008 / ASTM D2596	kgf	-	620
Oil Separation (30 hrs @ 100°C / 212°F)	ASTM D6184	%wt	-	6.5
Evaporation Loss (24 hrs @ 232°C / 450°F)	DIN 58397	%wt	-	0.25
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	None	None
Pour Point	ISO 3016 / ASTM D97	°C/°F	-35/-31	-25/-13
DIN Classification	DIN 51502	-	-	K FK 2 U-20
ISO Classification	ISO 6743/9	-	-	L-XBGBA-2

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.

Molub-Alloy 2115

13 Jul 2012

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

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

www.castrol.com/industrial