



Product Data

Castrol Molub-Alloy[®] 4086

Bearing Grease

Castrol Molub-Alloy 4086 Greases are heavy duty, all-weather greases designed for rugged service associated with mining, primary metals, cement, chemical, and forest products. They have exceptional film strength and are formulated to protect against friction and wear under heavy loading with a proprietary blend of Castrol Molub-Alloy solid lubricants.

Castrol Molub-Alloy 4086 Greases are part of Castrol Performance Lubricants' Eco-Solutions™ product offering. Formulated to address environmental concerns, they are free of lead, chlorinated solvents, and barium.

Description

Castrol Molub-Alloy 4086 Bearing Grease is manufactured from the highest quality components, carefully selected for their compatibility with Castrol Molub-Alloy lubricating solids.

Metallic lubricating solids of suitable grade are treated to increase their natural positive affinity to metal surfaces and are completely dispersed to assure effectiveness during the lubricant's full working life.

Castrol Molub-Alloy 4086 Bearing Grease meet NLGI Consistency Grades No. 0, No. 1, and No. 2, respectively.

Usage

Typical applications are ball and roller bearings, bushings, in mining, steel mills, logging, chemical and construction industries, where conditions require sealing against outside contaminants such as dust and water.

Castrol Molub-Alloy 4086 Bearing Grease Greases can be applied by any standard grease dispensing method.

Advantages

Increased service life of both parts and lubricant result from the proper establishment of a protective layer of Castrol Molub-Alloy solids

Fewer repairs. These solid lubricants can effectively increase the load bearing area, thus reducing unit pressures, operating temperatures, and wear.



Product Data

Reduced friction, attributable to the Castrol Molub-Alloy solid lubricants, is most evident under boundary conditions. This benefit is most pronounced where frequent start-up, slow speeds, or high and unexpected loads are encountered.

Reduced labor and downtime. Reduced friction means smoother, more efficient machine operation with longer parts life, and extended relubrication cycles.

Notes

Castrol Molub-Alloy 4086 Bearing Greases are not compatible with sodium or inorganic base greases.

Lubrication intervals should be increased gradually to ensure complete removal of previous lubricant and the establishment of the surface layer of Castrol Molub-Alloy lubricating solids.

For specific terms, conditions, warranty, and availability, refer to Castrol Performance Lubricants' Price List in effect at time of purchase.



Product Data

Typical Characteristics

	0	1	2
NLGI Grade			
Thickener Type	Lithium Complex	Lithium Complex	Lithium Complex
Worked Penetration, ASTM D 217, mm/10	355-385	310-340	265-295
Roll Stability, ASTM D 1831			
% change, Max	5	5	5
Specific Gravity, ASTM D 1298, @ 60°F	0.94	0.89	0.89
Dropping Point, ASTM D 2265, °F	N/A	500+	500+
Base Fluid Viscosity, D 445, D 2161:			
cSt @ 40°C	164	164	164
cSt @ 100°C	12.3	12.3	12.3
Oxidation Stability, ASTM D 942,			
Pressure drop @ 100 hrs., psi, max.	6	6	6
Water Washout, ASTM D 1264			
@79°C/175°F, % loss, max.	N/A	5	5
Rust Prevention Properties, ASTM D 1743, rating	Pass	Pass	Pass
Copper strip corrosion, ASTM D 4048			
Max. rating, 24 hrs @ 100°C/121°F	Pass (1b)	Pass (1b)	Pass (1b)
EMCOR Rust Protection ASTM D 8136/ IP 220			
Min. Rating	Pass (0/0)	Pass (0/0)	Pass (0/0)
Wheel Bearing Performance, ASTM D 1263:			
Leakage, grams, max.	7.0	4.0	4.0
Timken EP Test, ASTM D 2509, OK Value, lbs, min.	55	60	60
Four Ball Wear, ASTM D 2266, Scar Diameter, mm	0.50	0.45	0.45
Four Ball EP Test, ASTM D 2596:			
Load Wear Index, kg, min.	50	65	65
Weld Load, kg, min.	315	400	400
Deleterious Particle, ASTM 1404	10	10	10
Lincoln Ventmeter, °F @ 400 PSI	-20	10	+20
Molub-Alloy Solids Grade Classification	-	Multipurpose	-

Subject to usual manufacturing tolerances.

All reasonable care has been taken to ensure that this information is accurate as of the date of printing. Nevertheless, such information may be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.