



Product Data

Castrol Molub-Alloy® 6040

Heavy-duty Industrial Greases

Description

Castrol Molub-Alloy 6040 greases are a family of heavy-duty calcium sulfonate greases for demanding industrial applications. **Castrol Molub-Alloy 6040** greases may be used in journal or antifriction bearings in applications with extreme environmental conditions such as steel rolling mills and continuous casters. **Castrol Molub-Alloy 6040** greases are ideal for aggressive process water environments.

Castrol Molub-Alloy 6040 greases are formulated with premium petroleum base oils using a unique calcium-complex sulfonate thickener. They are compounded with select additives for extreme pressure characteristics and thin-film, high-pressure, antiwear protection. **Castrol Molub-Alloy 6040** greases are available in various NLGI grades and base oil viscosities to fit a wide range of applications.

Performance Benefits

- Advanced extreme pressure properties extend bearing life under shock-load conditions.
- Superior mechanical stability helps to reduce product consumption in high volume applications.
- High dropping point withstands breakdown in high temperature applications.
- Resists oxidation and prevents corrosive activity on bearings in aggressive process water environments.
- Barium-, lead- and zinc-free for easy, less expensive waste disposal.
- Suitable for applications utilizing both ferrous and non-ferrous metallurgies.

Application Notes

Castrol Molub-Alloy 6040 greases should not be mixed with greases using a different thickener. Gradually decrease relubrication intervals to ensure complete removal of the previous lubricant and to take full advantage of the capabilities of **Castrol Molub-Alloy 6040** greases.

Typical Characteristics

ISO Viscosity Grade	150	460	460
Viscosity, ASTM D 445, D 2161: @ 40°C, cSt	150	460	460
@ 100°C, cSt	14.4	30.1	30.1
Viscosity Index, ASTM D-2270	93	94	94
NLGI Grade	2	1 ½	½
Color	Amber	Amber	Amber
Thickener	Calcium Sulfonate	Calcium Sulfonate	Calcium Sulfonate
Worked Penetration, ASTM D 217:	265 – 295 mm/10	280 – 320 mm/10	330 – 360 mm/10
Worked Shear Stability: Penetration, worked 60 strokes	293	295	344
Penetration, worked 100,000 strokes, point change	-5	-3	-6
Roll Stability, ASTM D 1831, % change	1.4	0	-15
Dropping Point, ASTM D 2265, °C/°F	260+ / 500+	260+ / 500+	260+ / 500+
Oil Separation, ASTM D 1742, Wt. %	2.0	0	N/A
Rust Prevention Properties, ASTM D 1743	Pass	Pass	Pass
Copper Strip Corrosion, ASTM D 4048	1b	1b	1b
Four Ball EP Test, ASTM D 2596: Weld load	400	500	500
Four Ball Wear ASTM D 2266 (1800 rpm, 75°C, 1 hr, 40 kg.), mm	0.4	0.6	0.4
Timken EP Test, ASTM D 2509: OK Load, lbs. / kg.	50 / 22.6	65 / 29.5	65 / 29.5
Water Washout, ASTM D 1264: @ 79°C/175°F, % loss	3.2	1.8	2.8
Water Spray-off, ASTM D 4049	11.9	33	26.3
Oxidation Stability, ASTM D 942, psi loss	6.5	6.5	6.5

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.