



Molub-Alloy™OG 936 SF Heavy A

Open gear lubricant

Description

Castrol Molub-Alloy™OG 936 SF Heavy A (previously called Molub-Alloy 936 SF Heavy A) is a uniquely compounded solvent free open gear lubricant developed specifically for use on heavy duty equipment in mining and industrial service. It is compounded to give maximum protection to gears and slides on large draglines and shovels while minimising potential pollutants to the environment. A highly refined, viscous, paraffinic petroleum derivative is the foundation of a blended base fluid with excellent natural chemical and thermal stability.

A proprietary blend of Molub-Alloy lubricating solids is included to promote anti-wear and load carrying properties beyond those of conventional lubricants. The select lubricating solids work synergistically with chemical anti-wear and extreme pressure (EP) additives to reduce contact temperatures while providing excellent anti-weld protection under extreme pressure and shock loading.

Application

Molub-Alloy OG 936 SF Heavy A is suitable for use on all types of open gears, rails and rollers, racks and pinions, dipper sticks and other slides on shovels and draglines. It is certified to Bucyrus International SD 4713 (CAT) specification for open gear lubricants.

The structural integrity and strength of the lubricating film is particularly valuable in the critical process of seating new gears because of the natural occurrence of high spots (asperities) in newly machined surfaces. The lubricating film must separate the mating surfaces sufficiently to cushion the effect of the impact of asperities, and minimise initial pitting which could lead to progressive and destructive pitting later.

Molub-Alloy OG 936 SF Heavy A may be applied either manually or by heavy duty automatic systems

Advantages

- Forms a tough durable film with 'cushioning' effect – even under extreme pressures and at very slow speeds, the semi-dry working film resists erosion from rain or sleet, resists peeling in dusty environments, and resists film destruction by contaminating oils and greases migrating from nearby mechanisms
- Excellent rust and oxidation resistance – protects the equipment and the lubricating film against the elements in severe climates
- Unique compounding technology – flows readily in the film-forming process yet it resists 'squeeze-out' and clings tenaciously even to gear teeth in vertical orientation
- Good pumpability and set-back resistance – pumpable in heavy automatic lubricating systems and does

Typical Characteristics

| Name | Method | Units | OG 986 SF HEAVY A |
|--|----------------------|--------------------|--------------------------------------|
| Appearance | Visual | - | Black, free of lumps or agglomerates |
| Thickener Type | - | - | Lithium |
| Base Oil Type | - | - | Mineral Oil |
| NLGI Grade | DIN 51818 | - | 0.5 |
| Density @ 20°C/68°F | ASTM D1475 | g/ml | 1.014 |
| Worked Penetration (60 strokes @ 25°C / 77°F) | ASTM D217 / ISO 2137 | 0.1mm | 330-360 |
| Base Oil Viscosity @ 40°C / 104°F | ASTM D445 / ISO 3104 | mm ² /s | 1890 |
| Flash Point - open cup method | ASTM D92 / ISO 2592 | °C/°F | 194/381 |
| Rust Test (48hrs @ 52°C/126°F) | ASTM D1743 | Rating | Pass |
| Copper Corrosion (24hrs 100°C/212°F) | ASTM 4048 / ISO 2160 | - | 1b |
| Four Ball EP Test Load Wear Index Weld Load | ASTM D2596 | kg | 120 800 |
| Four Ball Wear Test (1hr 40kg 1200rpm @ 75°C/ 167°F) | ASTM D2266 | mm | 0.7 |
| Pumpability by Lincoln Ventmeter @ 1°C/30°F | US Steel | Psi | 500 |
| Lubricating Solids, Particle size | - | Microns | <15 |
| DIN Classification | DIN51826 | - | OGPF 0 G-10 |
| ISO Classification | ISO6743/9 | - | L_XABEB-0 |

Subject to usual manufacturing tolerances.

Additional Information

In order to minimise potential incompatibilities when converting to a new grease, all previous lubricant should be removed as much as possible prior to operation. During initial operation, relubrication intervals should be monitored closely to ensure all previous lubricant is purged.

This product was previously called Molub-Alloy 936 SF Heavy A. The name was changed in 2015.

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