Product Data

Molub-Alloy™ OG 8031 Range

Open gear lubricant

Description

Castrol Molub-Alloy™ OG 8031 Range (previously called Molub-Alloy™ 8031) is based on a high viscosity base oil gel formulated with a non-soap, inorganic thickening system. It contains a high viscosity base fluid especially designed to provide Extreme Pressure (EP) and Anti-Wear (AW) characteristics to the lubricant.

A proprietary blend of Molub-AIloy lubricating solids is included to promote anti-wear and load carrying properties. Molub-AIloy lubricating solids work synergistically with chemical reactive AW and EP additives to reduce contact temperatures and wear while providing excellent anti-weld protection under extreme pressure and shock loading.

Application

Molub-AIloy OG 8031 is designed to lubricate heavily loaded open gears, screw type actuators, and low to moderate velocity bushings and bearings equipped with centralised or sump type lubrication systems.

This Range is recommended for use in open gear applications in cement, mining and any other industries requiring anti-scuff and anti-wear protection, and where no product build up is desired. It is also suited for units containing bushings, bearings and/or gears where ISO 2200, 3000 or 6000 viscosity grade lubricant is required, but straight fluid lubricams leak out.

Advantages

- Formulated to minimise distribution line plugging tendency – minimises the potential for eventual plugging of the lubricant distribution lines commonly associated with conventional greases
- Readily pumpable and slumpable for good lubricant distribution – good lubricant distribution in enclosed and semi-enclosed applications, and drainable for ease of removal from surrounding guards
- Specifically formulated to flush contaminants from gear and pinion flanks, and to resist accumulation in the roots of gear teeth
- Highly thixotropic – exhibits a stable form at rest but becomes a fluid when agitated therefore will not run off the gear teeth. However, it will still spread easily and evenly since the gel-like lubricnant liquefies when pressure is applied, carrying away both heat and contaminants
- Formulated to address environmental concerns - free of solvents, lead, antimony and Barium

Typical Characteristics

Name	Method	Units	8031/2200-00	8031/3000-00	8031/6000-00
Appearance	Visual	-	Dark and Opaque	Dark and Opaque	Dark and Opaque
Thickener Type	-	-	Inorganic	Inorganic	Inorganic
Base Oil Type	-	-	Mineral Oil	Mineral Oil	Mineral Oil
NLGI Grade	-	-	00	00	00
Density at 20°C/68°F	inhouse method	-	0.937	0.941	0.942
Base Fluid Flash Point	ISO 2592 / ASTM D92	°C/°F	225/437	218/425	232/450
Worked Penetration, 60 Strokes at 25°C/77°F	ISO 2137 / ASTM D217	0.1mm	400-430	400-430	400-430
Base Oil Viscosity at 40°C/104°F	ISO 3104 / ASTM D445	mm^2/s	2200	3000	6000
Copper Corrosion, 24hrs 100°C/212°F	ISO 2160 / ASTM D4048	Rating	1b	1b	1b
Four Ball EP Test, Load Wear Index	ASTM D2596	kg	66	88	70
Four Ball EP Test, Weld Load	ASTM D2596	kg	400	400	800
Brookfield Viscosity, Spindle No.7, 10 rpm at 25°C/77°F	-	cP	76,000	80,000	48,000
FZG Test, A/2.76/50 Method, Failure Stage	DIN 51354	Rating	>12	>12	>12
US Steel Timken Retention Test, 15kg/33LB at 30 Minutes	-	Rating	Pass	Pass	Pass
Pumpability by Lincoln Ventmeter, at -1°C/30°F	inhouse method	Psi	180	210	200
Pumpability by Lincoln Ventmeter, at -7°C/20°F	inhouse method	Psi	350	440	380
Pumpability by Lincoln Ventmeter, at -12°C/10°F	inhouse method	Psi	830	840	790

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 8031. The name was changed in 2015.

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