



Molub-Alloy GM 1200

Gear Oil

Description

Castrol Molub-Alloy™ GM 1200 is an extreme pressure, friction modified industrial gear oil, highly fortified with colloidal molybdenum disulphide and solid lubricants.

Application

Molub-Alloy™ GM 1200 is primarily designed for industrial gearboxes where shock loading is encountered and conventional EP lubricants cannot control excessive gear tooth wear, for example applications in tyre manufacturing, sugar milling, cement, mining and quarrying areas.

Advantages

- Protection of gears during start-up and against shock load in service, through the formation of a protective film, which also ensures smooth running.
- Lubricating properties maintained even when exposed to strong oxidising conditions e.g. high operating temperatures. Lubricating properties of the oil are retained over a long life even in arduous service.
- Resistant to shearing during the process of gear meshing, maintaining the viscosity longer than other types of oils in service.
- Good demulsibility, shedding water rapidly on standing, thereby reducing the effect of corrosion.
- Low friction gear oil and has demonstrated lower bulk operating temperatures compared to conventional sulphur-phosphorous EP gear oils.

Typical Characteristics

Name	Method	Units	GM 1200
Appearance	Visual	-	Opaque black oil
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	915
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	1200
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	69
Viscosity Index	ISO 2909 / ASTM D2270	-	69
Flash Point - closed cup method	ISO 2719 / ASTM D93	°C/°F	185 / 365
Pour Point	ISO 3016 / ASTM D97	°C/°F	-7 / 19
Rust test - distilled water (24 hrs)	ISO 7120 / ASTM D665A	Rating	Pass
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	Rating	Pass
Timken OK Load test	ASTM D2782	kg / lb	29 / 65
Four Ball Weld Load test - Weld Point	ASTM D2783	kgf	540
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1800 rpm / 1 hr)	ASTM D2266	mm	0.39

Subject to usual manufacturing tolerances.

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