



Castrol Molub-Alloy WR 1000

Wire Rope Oil

Description

Castrol Molub-Alloy™ WR 1000 is a wire rope lubricant based on high viscosity index, highly refined paraffinic petroleum oils, compounded with additives, which impart strong adhesive and film forming properties, corrosion protection and anti-wear characteristics.

Application

Molub-Alloy WR 1000 was developed to perform as a premium quality wire rope lubricant in open cast and underground mining operations where maximum rope life must be achieved despite harsh operating conditions. It is designed for use on dragline hoist and drag ropes, shovel hoist and crowd ropes, winder and guide suspension cables and crane hoist ropes.

Special surface-active additives improve wetting and penetration of lube to rope inner surfaces.

Extreme pressure characteristics are enhanced by the addition of lubricating solid additives and unique synergistic agents.

Polymeric additives provide exceptional coverage and protection to outer surfaces of the rope and sheaves.

Molub-Alloy WR 1000 is environmentally acceptable rope lube in that does not contain solvents, lead, barium, zinc, antimony or other ecologically undesirable additives.

Advantages

- Exceptional anti-wear and load carrying.
- Highly penetrative to rope core.
- Excellent corrosion protection.
- Forms a tough layer to protect rope and sheave.
- Resists fling off to improve housekeeping.
- Will not peel or chip in service.

Typical Characteristics

Name	Method	Units	Molub-Alloy WR 1000
Appearance	Visual	-	Slate Grey, Oily Fluid
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	1000
Viscosity Index	ISO 2909 / ASTM D2270	-	+95
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	+250/482
Copper corrosion (3 hrs@100°C/212°F)	ISO 2160 / ASTM D130	Class	1b
Rust test - Salt Spray test (24 hrs @ 35°C)	ISO 9227 / ASTM B117	Pass	Pass
Timken OK Load test	ASTM D2782	kg/lbs	35/80
Four Ball Weld Load test - Load Wear Index	ASTM D2783	kgf	62
Four Ball Weld Load test - Weld Point	ASTM D2783	kgf	350

Subject to usual manufacturing tolerances.

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