



## Molub-Alloy Chain Oil

Chain Oil

### Description

Castrol Molub-Alloy™ Chain Oils are multi-service chain lubricants designed for use in a variety of plant-wide chain applications. These lubricants are manufactured from a combination of the highest quality components including, anti-wear/extreme pressure additive system with advanced Molub-Alloy lubricating solids. They are also compounded to inhibit oxidation and to protect against rust and corrosion.

### Application

Molub-Alloy Chain Oil 22 is an excellent lubricant for wire ropes, especially those with a sisal or polypropylene core. It is highly inhibited to protect against rust and corrosion to protect the rope from within.

Molub-Alloy Chain Oil 100 is widely used in chain and conveyor applications where non-drip characteristics are desirable to reduce oil loss or "fling-off". It can also be used on chains where earlier wear conditions and expanded clearances exist. Molub-Alloy Chain Oil 100 resists the washing action of water and detergent wash systems and offers both corrosion and wear protection in wet environments.

Molub-Alloy Chain Oil are used on conveyors and chains operating at temperatures up to 90°C/190°F. They can be used intermittently at higher temperatures up to 150°C/300°F but more frequent relubrication may be required.

Molub-Alloy Chain Oils can be applied by brush, drip, spray, mist, automatic dispensing equipment, central oiling or circulation systems.

### Advantages

- Resists accumulation of contamination and abrasive matter: The semi-dry lubrication attribute of Molub-Alloy Chain Oil 22 provides a very light film, giving the appearance of a dry film. This ensures minimum pickup of abrasive dusts, lint, sand, and other particles, thus eliminating formation of abrasive compounds which can increase wear and shorten chain life.
- Excellent EP and anti-wear protection under boundary conditions: The compounded Molub-Alloy solids package provides superior protection during frequent start-up, slow speeds, and when high and/or shock loads are encountered.
- Superior friction reduction: Capable of reducing energy consumption at peak power demand during cold start-up.
- Overall savings: Savings can result from less labour and downtime, smoother, more efficient operation with longer parts life, and extended lubrication cycles.

## Typical Characteristics

Name	Method	Units	22	100
ISO Visocity Grade	-	-	22	100
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m <sup>3</sup>	891	909
Kinematic Viscosity @ 20°C / 68°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	59	420
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	22	108
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	3.9	10.4
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	185/365	205/400
Pour Point	ISO 3016 / ASTM D97	°C/°F	-45/-49	-24/-11
Rust test - distilled water (24 hrs)	ISO 7120 / ASTM D655A	-	Pass	Pass
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D655B	-	Pass	Pass
Carbon residue - Conradson test	ISO 6615 / ASTM D189	% wt	0.02	0.05
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ASTM D2266	mm	0.5	0.5
Four Ball Wear test - Wear Scar Diameter (300N / 1 hr)	DIN 51350-3B	mm	0.4	0.35

Subject to usual manufacturing tolerances.

## Additional Information

Molub-Alloy Chain Oil 22 should not be used in connection with ceramic filters.

Molub-Alloy Chain Oil 100 should not be used in conjunction with diatomaceous earth filter. Other type filters need only their recommended inspection and service.

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