



## Molub-Alloy™ CH Range

Chain Oil

### Description

Castrol Molub-Alloy™ CH Chain Oils (previously called Castrol Molub-Alloy™ Chain Oil) 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, antiwear/ 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 CH 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 CH 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 100 resists the washing action of water and detergent wash systems and offers both corrosion and wear protection in wet environments.

Molub-Alloy CH Chain Oils 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 CH 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 CH 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	CH 22	CH 100
ISO Viscosity Grade	-	-	22	100
Density @ 15°C / 59°F	ASTM D4052/ ISO 12185	kg/m <sup>3</sup>	891	909
Kinematic Viscosity @ 20°C / 68°F	ASTM D445/ ISO 3104	mm <sup>2</sup> /s	59	420
Kinematic Viscosity @ 40°C / 104°F	ASTM D445/ ISO 3104	mm <sup>2</sup> /s	22	108
Kinematic Viscosity @ 100°C / 212°F	ASTM D445/ ISO 3104	mm <sup>2</sup> /s	3.9	10.4
Flash Point - open cup method	ASTM D92/ ISO 2592	°C/°F	170/338	205/400
Pour Point	ASTM D97/ ISO 3016	°C/°F	-45/-49	-24/-11
Rust test - distilled water (24 hrs)	ASTM D655A/ ISO 7120	-	Pass	Pass
Rust test - synthetic seawater (24 hrs)	ASTM D655B/ ISO 7120	-	Pass	Pass
Carbon residue - Conradson test	ASTM D189/ ISO 6615	% 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

Care should be taken when filters are used with Molub-Alloy CH Chain Oils. Certain types such as ceramic filters and diatomaceous earth filter should not be used.

Other type filters need only their recommended inspection and service.

**This product was previously called Molub-Alloy Chain Oil. The name was changed in 2015.**

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19 Feb 2015

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