Product Data

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 Visocity Grade	-	-	22	100
Density @ 15°C / 59°F	ASTM D4052/ ISO 12185	kg/m³	891	909
Kinematic Viscosity @ 20°C / 68°F	ASTM D445/ ISO 3104	mm²/s	59	420
Kinematic Viscosity @ 40°C / 104°F	ASTM D445/ ISO 3104	mm²/s	22	108
Kinematic Viscosity @ 100°C / 212°F	ASTM D445/ ISO 3104	mm²/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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