



Tribol™ CH 290 Range

Conveyor lubricants

Description

Castrol Tribol™ CH 290 (previously called Tribol™ 290) is a range of conveyor lubricants formulated with premium synthetic fluids. The range is designed to lubricate conveyor chains and open trolley wheel bearings in high temperature paint ovens found in the automotive and metal decorating industries.

Tribol CH 290 is based on water soluble and synthetic fluids known for their natural lubricating ability, favourable volatility characteristics, and chemical and thermal stability. An advanced additive system provides additional Anti-wear (AW) and Extreme Pressure (EP) characteristics under boundary conditions, for protection from surging loads and extreme oven temperatures.

Application

Tribol CH 290 lubricates any chain and open trolley bearings where compatibility with water-based paints and coatings is critical.

The range is usually recommended for oven temperatures from 150°C (302°F) to 220°C (428°F). At elevated temperatures, reapply more frequently rather than increase the amount applied.

Tribol CH 290 is most suitable for automotive production lines, which usually include cathodic electro-deposition, water-based painting (coating), then drying and curing in an oven. Typically, these operations include immersing parts into baths from moving overhead conveyors. Contamination from dripping lubricant is always a threat to production and process baths. However, should Tribol CH 290 ever drip into a water base process bath, it would dissolve and disperse, preventing accumulation and the disruption of coatings or electrodepositions.

Advantages

- Compatible with most e-coat process and most water-based paints - avoids lubricant-related 'fish eyes' and craters, reducing rework and refinishing costs
- Low volatility - allows reduced application/consumption, reduces the potential for contamination from drip or fling-off, and decreases costs relating to soiled merchandise
- Excellent wetting and adhesive properties - allows for fast, thorough penetration to load zones and minimises tendency to drip
- Anti-wear (AW) and Extreme Pressure (EP) characteristics - helps extend the useful life of the chain by providing contact zone friction and wear protection

Typical Characteristics

Name	Method	Units	CH 150	CH 220
Density @ 15°C / 59°F	ASTM D4052 / ISO 12185	kg/m ³	1050	1060
Kinematic Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm ² /s	150	225
Kinematic Viscosity @ 100°C / 212°F	ASTM D445 / ISO 3104	mm ² /s	26	39
Viscosity Index	ASTM D2270 / ISO 2909	-	210	225
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	280 / 536	280 / 536
Pour Point	ASTM D97 / ISO 3016	°C/°F	-49/ -45	-38 / - 39
Rust test- distilled water (24 hrs)	ASTM D665A / ISO 7120	Rating	Pass	Pass
Four Ball Wear test- Wear Scar Diameter (40 kgf / 75°C / 1200 rpm, 1 hr)	ASTM D2266	mm	0.38	0.36

Subject to usual manufacturing tolerances.

Additional Information

Tribol CH 290 range is not compatible with mineral (petroleum) base lubricants. When changing over to Tribol CH 290 from other lubricants, clean automatic application systems thoroughly before adjusting delivery amounts and patterns.

This product was previously called Tribol 290. The name was changed in 2015.

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 06 May 2015
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