

610 MT Plus



SYNTHETIC LUBRICATING FLUID

Description

Chesterton® 610 MT Plus Synthetic Lubricating Fluid is a premium quality full synthetic lubricant designed to provide lubrication at temperatures ranging from -25°C (-15°F) to those over 270°C (520°F)

where petroleum lubricants are unable to function.

Unlike petroleum based lubricants, the product will not carbonize, oxidize to a sludge or form lacquers and varnishes at high temperatures. In fact, 610 MT Plus Synthetic Lubricating Fluid has excellent solvency and will actually remove many of these byproducts caused by other petroleum base lubricants and allow equipment to run cooler and more efficiently. When operating at temperatures beyond its capability, the product will simply evaporate cleanly.

Chesterton 610 MT Plus Synthetic Lubricating Fluid is excellent for lubrication of equipment operating at elevated temperatures such as oven chains, motors, anti-friction bearings, paint curing and drying ovens, low loading gear boxes, ceramic ovens, oven door hinges and for low temperature applications to -25°C (-15°F) in refrigerated or winter conditions.

Chesterton 610 MT Plus is designed and used for the lubrication of roller bar chains in Conti-Roll presses. Conti-Roll press manufacturers include Siempelkamp, Dieffenbacher, Metso, Kuster and Pagnoni Impianti.

Composition

Chesterton 610 MT Plus Synthetic Lubricating Fluid begins with a polyolester base. This provides much greater stability and far less volatility than the diester base commonly used in most other industrial synthetic lubricants. At equivalent temperatures above 270°C (520°F), the diester base lubricants will lose over 5 times as much product through evaporation as the 610 MT Plus Synthetic Lubricating Fluid.

A proprietary additive package is added to the product to enhance its performance and give properties that far exceed those of most petroleum based products. Extreme pressure additives

Typical Physical Properties

Appearance	Amber Liquid
Odor	Low
ISO VG (ASTM D 2422, DIN 51 519)	220
Specific Gravity	0.98
Viscosity (ASTM D 445, DIN 51 561) @ 40°C (104°F) cSt (mm ² /s) @ 100°C (212°F) cSt (mm ² /s)	220 22
Viscosity Index (ASTM D 2270, ISO 2909)	130
Temperature Range	-25°C to 270°C (-15°F to 520°F)
Pour Point (ASTM D 97, ISO 3016)	-25°C (-13°F)
Flash Point, C.O.C. (ASTM D 92, ISO 2592)	>290°C (>554°F)
Fire Point (ASTM D 92, ISO 2592)	325°C (617°F)
Evaporation Loss, 6 1/2 Hours @ 204°C (400°F)	0.62%

give superior wear characteristics and minimize equipment maintenance and downtime. Rust and oxidation inhibitors give added protection against corrosion. Lubricity additives provide for maximum lubrication and minimum friction.

Because Chesterton 610 MT Plus Synthetic Lubricating Fluid has a high flash point and low evaporation rate, it does not have the characteristic smoke and fire hazards associated with petroleum base lubricants when used in hot applications. The safety level for the user is thus very high.

The components of 610 MT Plus Synthetic Lubricating Fluid are considered more readily biodegradable than petroleum based products and should not be detrimental to the environment.

Features

- Wide temperature range
- Self cleaning
- 100% synthetic
- No residue
- Non-carbonizing
- Non-oxidizing
- Low evaporation rate
- High flash point
- Biodegradable

Applications

Equipment operating in elevated temperatures, refrigerated areas, and in severe environments. Excellent for increasing the efficiency of anti-friction bearings, impregnated bearings, textile tenter frames, low loading gear boxes, oven hinges and chain conveyors and Conti-Roll presses. Lubricates at sub-zero temperatures where greases congeal.

610 MT Plus Synthetic Lubricating Fluid is designed for use in Conti-Roll presses for the continuous production of fibre, particle boards and laminates. These presses operate at high pressures and high temperatures (>200°C). The most complex lubrication points on the moving parts in the heating and compression area are:

- steel belts
- carpets of calibrated rollers
- heating platens
- roller bar chains
- contact pressure and aligning chains
- beds of roller chains

Directions

Automatic or manual lubrication as appropriate. Reapply as needed.

Safety

Before using this product, please refer to the Material Safety Data Sheet (MSDS) or appropriate safety sheet for your area.

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