

610Plus 610(E)Plus

SYNTHETIC LUBRICATING FLUID

APPLICATION AREAS

- *Anti-Friction Bearings*
- *Textile Tenter Frames*
- *Low Loading Gear Boxes*
- *Oven Chains and Hinges*
- *Chain Conveyors*
- Paint Curing and Drying Ovens*
- *Ceramic Ovens*



PRODUCT DATA SHEET

KEY FEATURES AND BENEFITS

- 100% synthetic
- Biodegradable
- Wide temperature range
- Low evaporation rate
- No residue or varnish buildup
- High flash point

PACKAGING

610Plus
5L
20L
208L

610(E)Plus
Aerosol

DIRECTIONS

Apply by spraying or using a squirt oiler or oil can with extended spout. Apply at each bushing or lubrication site. Reapply as needed. 610Plus & 610(E)Plus can be dispensed in convenient automatic lubrication equipment.

DESCRIPTION

Chesterton® 610Plus & 610(E)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, 610Plus & 610(E)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. Extreme pressure additives 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 610Plus & 610(E)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 610Plus & 610(E)Plus Synthetic Lubricating Fluid are considered more readily biodegradable than petroleum based products and should not be detrimental to the environment.

Typical Physical Properties

Appearance	Amber Liquid
Specific Gravity	0.99
ISO VG (ASTM D2422, DIN 51 519)	68
Viscosity (ASTM D 445, DIN 51 561) @ 40°C (104°F) cSt (mm²/s) @ 100°C (212°F) cSt (mm²/s)	61-75 9-11
Viscosity Index (ASTM D 2270, ISO 2909)	130
Pour Point (ASTM D 97, DIN 51 755)	-45°C (-49°F)
Operating Temperature	-25°C to 270°C (-15°F to 520°F)
Fire Point (ASTM D 92, ISO 2592)	330°C (620°F)
Flash Point C.O.C. (ASTM D 92, ISO 2592)	310°C (590°F)
Thermal Conductivity, W/M-K (BTU/ft-hr-F) @ 10°C (50°F) @ 260°C (500°F)	0.135 (0.078) 0.116 (0.067)
Evaporation Loss 22 hours @ 204°C (400°F) (ASTM D 2595)	1.90%

Before using this product, please refer to Safety Data Sheet (SDS).