

# 610HT(E)

## SYNTHETIC LUBRICATING FLUID

### APPLICATION AREAS

- *Textile Tenter Frames*
  - *Oven Chains*
  - *Chain Conveyors*
- *Paint Curing and Drying Ovens*
  - *Ceramic Ovens*



### PRODUCT DATA SHEET

#### KEY FEATURES AND BENEFITS

- 100% synthetic
- Biodegradable
- Non-carbonizing/Non-oxidizing
- Low evaporation rate
- No residue
- High flash point

#### PACKAGING

- 5 L
- 20 L
- 208 L

#### DIRECTIONS

Apply by spraying or using a squirt oiler or oil can with an extended spout. Apply at each bushing or lubrication site. Reapply as needed.

#### DESCRIPTION

Chesterton<sup>®</sup> 610 HT(E) 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 250°C (482°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 HT(E) Synthetic Lubricating Fluid has excellent solvency and will actually remove many of these byproducts caused by other petroleum based 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 610 HT(E) 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 based lubricants when used in hot applications. The safety level for the user is thus very high.

#### TYPICAL PHYSICAL PROPERTIES

|                                                                                            |                                 |
|--------------------------------------------------------------------------------------------|---------------------------------|
| Appearance                                                                                 | Amber Liquid                    |
| Flash Point C.O.C. (ASTM D 92, ISO 2592 )                                                  | 225°C (437°F)                   |
| Specific Gravity                                                                           | 0.97                            |
| Odor                                                                                       | Slight, Sweet                   |
| ISO VG (ASTM D2422, DIN 51 519)                                                            | 460                             |
| Viscosity (ASTM D 445, DIN 51 561)<br>@ 40°C (104°F) cSt (mm <sup>2</sup> /s)              | 473                             |
| @ 100°C (212°F) cSt (mm <sup>2</sup> /s)                                                   | 71                              |
| Viscosity Index (ASTM D 2270, ISO 2909)                                                    | 230                             |
| Four Ball Wear Test (ASTM D 2266, DIN 51 350)<br>1 hr, 75°C @ 1200 RPM                     |                                 |
| Scar Diameter 10 kg                                                                        | 0.24 mm                         |
| Scar Diameter 40 kg                                                                        | 0.35 mm                         |
| Pour Point (ASTM D 97, DIN 51 755)                                                         | -40°C (-40°F)                   |
| Operating Temperature                                                                      | -25°C to 250°C (-15°F to 482°F) |
| Use over 225°C (437°F) requires adequate ventilation and absence of open ignition sources. |                                 |
| Fire Point (ASTM D 92, ISO 2592)                                                           | 265°C (509°F)                   |
| Evaporation Loss 6.5 hours @ 204°C (400°F)<br>(ASTM D 972)                                 | 7.5%                            |

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