



## Steam Cylinder NC Oils

### *Non-Compounded Steam Cylinder Lubricant*

**Steam Cylinder NC Oils** are premium performance high viscosity oils without the presence of fat. These enclosed systems operate at heavy loads and slow speeds at higher temperatures and need the protection provided in high viscosity products.

#### Product Features:

- Works well for all steam pressures and temperatures
- Stays on metal surfaces for better protection
- Excellent film integrity at high temperatures
- Can be used as a Worm Gear Lubricant

#### Customer Benefits:

- Excellent anti-wear and low friction properties
- Reduces deposit formation for cleaner systems
- Excellent water resistance

#### Applications:

- Recommended for steam cylinders requiring a high viscosity fluid. Suitable for the lubrication of worm gears and other low speed reduction gears.



## Typical Properties

### Royal Steam Cylinder NC Oils

| Product Number                   | 622  | 643A | Test Method |
|----------------------------------|------|------|-------------|
| ISO Grade                        | 460  | 1000 | -           |
| Fat Content, % wt                | 0    | 0    | -           |
| Kinematic Viscosity @ 40°C, cSt  | 462  | 971  | ASTM D445   |
| Kinematic Viscosity @ 100°C, cSt | 28.1 | 43.1 | ASTM D7042  |
| Viscosity @ 100F, SUS            | 2494 | 5330 | -           |
| Viscosity @ 210F, SUS            | 138  | 210  | -           |
| Viscosity Index                  | 85   | 81   | -           |
| API Gravity                      | 20.6 | 23.5 | -           |
| Specific Gravity                 | 0.93 | 0.91 | -           |
| Flash Point, °C                  | >290 | >300 | ASTM D92    |
| Pour Point, °C                   | <-5  | <0   | ASTM D97    |
| Lbs/Gal                          | 7.7  | 7.6  | -           |
| Color                            | <3   | <3   | ASTM D1500  |

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information above is subject to change without notice.

#### Health and Safety:

This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS) found on our website. [www.royalmfg.com](http://www.royalmfg.com) or call (918)-584-2671.

#### Packaging Options:



55 Gal. Drums



275/300 Gal Totes



>2,000 Gal. Bulk