

### **TCS Slideway Lubricant**

Phillips 66® TCS Slideway Lubricant is a premium quality circulating oil developed for the lubrication of lathes and heavily loaded machine tool slideways. It is specially formulated to prevent stick-slip problems to ensure good surface finish on the machined part, and to provide quick and effective separation from water and metalworking fluids.

TCS Slideway Lubricant is specially formulated to allow machine tool carriages to start easily and move smoothly throughout their travel, thus preventing stickslip problems. This reduces carriage chatter and ensures a smooth finish on the machined part. Mild extreme-pressure properties prevent scoring of the slideways during carriage travel. A tackiness additive improves adhesion and prevents the oil from being squeezed off the slideways. It also helps prevent the oil from being washed away by cutting fluids. Additional proprietary additives provide protection against rust and corrosion and allow optimum separation from coolants and tramp oils.

TCS Slideway Lubricant is water-white in color to allow easy visibility of machined parts.

### **Applications**

- Horizontal and vertical slideways on machine tools, such as lathes, planers, shapers, drilling machines, milling machines, and screw machines
- Lumber mill saw carriages
- Printing presses
- Other applications that require a clear, tacky slideway oil

#### Features/Benefits

- Excellent anti-stick-slip performance
- Excellent coolant-separating properties
- · Good surface finish
- Protects against scoring and wear
- Good adhesion for retention on slideways
- Protects against rust and corrosion
- Water-white in color for easy visibility

Premium
Machine Tool
Slideway
Lubricant





# **TCS Slideway Lubricant**

| ISO Grade                                  | 32        | 68        | 220       |
|--|-----------|-----------|-----------|
| Specific Gravity @ 60°F                    | 0.848     | 0.870     | 0.874     |
| Density, lbs/gal @ 60°F                    | 7.06      | 7.24      | 7.28      |
| Color, ASTM D1500                          | 0.0       | 0.0       | 0.0       |
| Flash Point (COC), °C (°F)                 | 205 (401) | 232 (450) | 280 (536) |
| Pour Point, °C (°F)                        | -15 (5)   | -15 (5)   | -12 (10)  |
| Viscosity                                  |           |           |           |
| cSt @ 40°C                                 | 32.0      | 69.0      | 227       |
| cSt @ 100°C                                | 6.1       | 9.0       | 23.8      |
| SUS @ 100°F                                | 164       | 357       | 1,184     |
| SUS @ 210°F                                | 46.6      | 56.6      | 118       |
| Viscosity Index                            | 141       | 104       | 131       |
| Acid Number, ASTM D664, mg KOH/g           | 1.3       | 1.3       | 1.3       |
| Demulsibility, ASTM D1401, minutes to pass | 20        | 20        | 20        |
| Rust Test, ASTM D665 A&B                   | Pass      | Pass      | Pass      |
| Stick-Slip Performance, ASTM D2877         | <0.80     | <0.80     | <0.80     |

# **Health & Safety Information**

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <a href="http://www.phillips66.com/EN/products/Pages/MSDS.aspx">http://www.phillips66.com/EN/products/Pages/MSDS.aspx</a>.