

Spindle Oils

Liberty Spindle Oils



**High performance
Anti-wear Spindle
Oils**

Liberty Spindle Oils are rust and corrosion-fighting lubricants that provide anti-wear properties.. These premium lubricants provide long service life and protection against varnish and sludge formations even at high operating temperatures.

Liberty Spindle Oils have a high natural viscosity index that prevents them from thinning and thickening at extreme temperatures and pressure thereby ensuring consistent performance over wide application challenges.

Applications

Machine Spindle protection

Excellent water-separating properties

Superior oxidation resistance

Wear Protection

Protects against rust and corrosion

Low Carbon-forming

Excellent foam resistance



(502) 363-5600

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| TEST | METHOD | 10 | 15 | 22 |
|--------------------------|-------------|------|------|------|
| Specific Gravity | ASTM D-287 | .88 | .87 | .87 |
| Flash Point F | ASTM D-92 | >400 | 410 | 420 |
| Pour Point C | ASTM D-97 | -30 | -25 | -20 |
| cSt @ 40C | ASTM D-445 | 10 | 15 | 22 |
| cSt @ 100C | | 2.65 | 3.3 | 4.0 |
| Rust Test | ASTM D-665A | Pass | Pass | Pass |
| Viscosity Index | ASTM D-2270 | 99 | 98 | 96 |
| Copper Strip Corrosion | ASTM -130 | 1B | 1B | 1B |
| TOST, Hours to 2 NN | ASTM D 943 | 5000 | 5000 | 5000 |
| Water Separability, min. | ASTM D 1401 | 20 | 20 | 20 |



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