**Spindle Oils**

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| Product Application: |

Spindle Oils are premium extended life turbine grade products designed for the lubrication of high speed spindle bearings in machine tool equipment. They are formulated from the highest grade hydro-treated light viscosity base stocks compounded with the latest technology in additive componentry to provide excellent resistance to thermal and oxidative breakdown, while providing excellent rust and corrosion protection.

Spindle Oils provide excellent lubrication of exacting close tolerance bearing which keep spindles running cool allowing for proper operation of precision machine tools.

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| Features and Advantages: |

Cincinnati Machine P-65, Spindle Oil 2

Cincinnati Machine P-62, Spindle Oil 10

Cincinnati Machine P-45, Spindle Oil 15

Cincinnati Machine P-45, Spindle Oil 22

Cincinnati Machine P-45, Spindle Oil 32

\*Excellent anti foam characteristics

\*Turbine grade extended life base stock

\*Filtered to a cleanliness of 1 micron

\* Excellent water demulsibility

 \*Capable of misting applications

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| Package Size: |

Bulk, Drum, Pail, 2.5 Gallons

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| Typical Characteristics:  |

**ISO GRADE 2 10 15 22 32**

Viscosity Index (Min.) 106 104 104 103 102

Viscosity

 cSt @ 40°C 2.1 10.0 15 22.0 31.8

 cSt @ 100°C .95 2.62 3.28 4.0 5.3

Total Acid Number, ASTM D974, mgKOH/g 0.06 0.06 0.06 0.06 0.06

Rust Characteristics,
Proc A, ASTM D 665 Pass Pass Pass Pass Pass
Pour Point, °C, ASTM 97 -35 -20 -9 -20 -18

Flash Point, °C, ASTM 92 84 182 194 192 220

Copper Strip Corrosion, 3 hrs
@ 100°C, ASTM D 130 1A 1A 1A 1A 1A

Density @ 15°C, ASTM D 4052, kg/L 0.802 0.844 0.854 0.862 .881

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