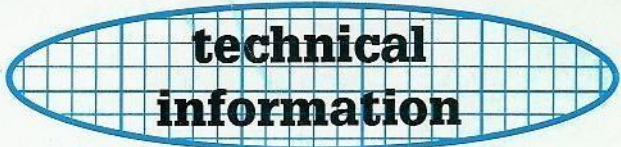




Orelube®



**technical
information**

SPINDLE OILS

HIGH SPEED SPINDLE LUBRICANTS

Description

Orelube SPINDLE OILS are designed for the lubrication of spinning and twisting spindles and rings and high speed roller bearings such as those found in machine tool spindles, especially grinders.

SPINDLE OILS provide *exceptional antiwear protection*. A relatively narrow volatility range reduces misting and fogging tendencies. Their light color minimizes fabric staining. They are *fortified with a tackifier agent* for extra-adhesive properties, especially at high speeds.

An oil that is susceptible to oxidation can form sludge-like deposits thus increasing friction. These deposits may lead to corrosion of the highly-finished surfaces of the spindle elements. SPINDLE OILS are formulated using special oxidation inhibitors to provide the highest level of oxidation stability.

Spindles often operate in humid environments which can cause rusting that pits the bearing surface if protection is not provided. This pitting leads to greater power consumption and eventual replacement of worn parts. SPINDLE OILS *will prevent rust and corrosion*.

SPINDLE OIL LIGHT is an ISO 15 viscosity grade oil recommended for very high speed, light load applications meeting Cincinnati Milacron P-62 specifications.

SPINDLE OIL MEDIUM is an ISO 22 viscosity grade oil to be used in grinder spindle bearings and high speed spinning and twisting spindles and rings meeting Cincinnati Milacron P-45 specifications.

SPINDLE OIL HEAVY is an ISO 32 viscosity grade oil recommended for use with higher load, slower speed spindles and bearings.

Typical Properties	LIGHT	MEDIUM	HEAVY
ISO Grade	15	22	32
Viscosity, ASTM D-445			
cSt @ 40 C	14.4	22.5	31.9
cSt @ 100 C	3.5	4.3	5.3
Flash Point, F	370	380	400
Rust Test, ASTM D-665 A and B	Pass	Pass	Pass
4-Ball Wear Test, ASTM D-4172			
scar diameter, mm	0.40	0.40	0.40

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The Orelube Corporation holds an exclusive world-wide license from The Boelube Company to manufacture and market the BOELUBE® series of lubricants.