



SPINDLE OIL

PREMIUM QUALITY SPINDLE AND HYDRAULIC OIL

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Spindle Oil is highly refined, formulated with the properties required to protect bearings in high-speed spindles and industrial equipment.

In service **Spindle Oils** offers the following benefits:

- ◆ Protection against rust and corrosion
- ◆ Non-zinc, phosphorus anti-wear
- ◆ Low viscosity to aid in heat reduction

Product Applications

High speed rolling bearing applications impose severe demands on lubricants **Spindle Oils** are quality lubricant for high-speed spindles, which meet the requirements of nearly all spindle applications found in the textile industry, as well as many machine tool spindle requirements. **Spindle Oils** have outstanding oxidation stability to resist gumming, sludge formation and discoloration in service.

Spindle Oils are also recommended for hydraulic service where lower viscosity is required. Also several builders including Cincinnati Milacron, Kopp Speed Variator Company and Lucas Rotax Company insist on, or prefer, a phosphorous type, rather than an active, sulphur type anti-wear additive.

Product Recommendations and Approvals

Spindle Oils 10 and 22 are approved by Cincinnati Milacron against P-62 and P 45 specifications, respectively and are recommended for use in the textile where spindles can turn up to 13,000rpm.

Product Maintenance and Handling

Spindle Oils are manufactured from high quality petroleum base stocks, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to the Material Safety Data Sheet for further information.

Note: This product is not controlled under Canadian WHMIS legislation.

Typical Properties

Spindle Oil Grade	10	15	22
ISI Viscosity Grade	10	15	22
Pour Point, °C	-47	-42	-38
Flash Point, °C	147	178	168
Viscosity Index	85	87	93
Kinematic Viscosity, cSt			
@ 40°C	10.9	15.6	21.3
@ 100°C	2.7	3.9	4.1
Rust Test, Sea Water	Pass	Pass	Pass

The typical properties shown above are representative of current production. Some are controlled by manufacturing and performance specifications while others are not. All may vary within modest ranges.