

SPINDELÖL SPINDLE OIL

Product Description

SPINDELÖL Spindle Oil is a high-performance, low-viscosity lubricant formulated from highly refined mineral oil, anti-wear agents, and rust and oxidation inhibitors. Designed for the lubrication of high-speed textile machines and automated machine tools, it ensures smooth operation, minimizes friction, and extends the life of spindle bearings and critical machine components. It is also used in specific hydraulic and circulating oil systems where a lower viscosity fluid is required.

Product Features & Benefits

- **Maximizes Equipment Life**
Anti-wear additives protect bearing surfaces from wear under high loads and temperatures.
- **Reduces Maintenance Costs**
Prevents deposit buildup and varnish formation for cleaner operation.
- **Superior Oxidation Resistance**
Extends oil life and maintains efficiency over time.
- **Effective Rust & Corrosion Protection**
Keeps equipment safe in humid conditions.
- **Excellent Lubricity & Thermal Stability**
Ensures smooth, low-friction operation in high-speed applications.

Application

- Textile machine spinning frame spindles.
- Automated machine tools requiring low-viscosity oil.
- High-speed, lightly loaded spindles, or where higher viscosity oils cause excessive temperatures.
- Lightly loaded high-speed industrial machine bearings.
- Industrial circulating oil systems requiring low-viscosity oil.
- Hydraulic systems where low-viscosity, anti-wear fluids are recommended.
- Precision grinders, lathes, jig borers, and tracer mechanisms.

Meets or Exceeds

- **DIN 51502 classification** - HL
- **ISO 6743/4** -Hydraulic Oils Type HL
- **ISO 6743/2** - Spindle Oils Type FC
- **Cincinnati Lamb (formerly Milacron) P-45 (FC-22)** - Spindle Oil 22
- **Cincinnati Lamb (formerly Milacron) P-62 (FC-10)** - Spindle Oil 10
- **Cincinnati Lamb (formerly Milacron) P-65 (FC-2)** - Spindle Oil 2

Typical Properties

Property	Method	Unit	ISO 10	ISO 22	ISO 32	ISO 46
Kinematic Viscosity @ 40°C	D7042	cSt	10.2	22.4	32.1	46.2
Viscosity Index	D2270	-	100	100	100	100
Copper Strip Corrosion (3h @ 100°C)	D130	-	1A	1A	1A	1A
Flash Point (min)	D92	°C	187	200	210	220
Pour Point (max)	D97	°C	-15	-18	-18	-18

