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Product Information

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UNIVERSAL SPINDLE OIL

Product Description **Universal Spindle Oils** are premium quality, highly refined lubricating oils formulated for use in high speed, lightly loaded bearings.

Applications **Universal Spindle Oils** are also recommended for automatic machine tools and other applications where operating speeds are in excess of 10,000 RPM, and meet the requirements for many general purpose machine oils.

Benefits **Universal Spindle Oils** provide excellent oxidation stability; rust protection and resistance to deposit formation for longer service life. Their low viscosities reduce oil drag caused by thicker oils, thus lowering operating temperatures by reducing friction and increasing machine efficiency. **Universal Spindle Oils** meet the requirements of Cincinnati Machine specifications P-45 and P-62.

Specifications

Typical Property	ASTM Test Method	Typical Results	
ISO Viscosity Grade		10	22
Viscosity:	D 445		
40° C, cSt		9.5	21.0
100° C cSt		2.5	4.0
Gravity, API @ 60°F	D 1298	29	32
Pour Point, °F	D 97	-30	-30
Copper Corrosion	D 130	1A	1A
Neutralization Value, TAN	D 974	0.2	0.2
Demulsibility Test, min	D 1401	5	5
Turbine Oil Stability Test, hrs.	D 943	2000 +	2000 +
Rust Test	D 665B	Pass	Pass
UO Item Number		16-19-11	16-19-12
MSDS Number		16-19-11	16-19-11

Refer to Universal Oil's Material Safety Data Sheet (MSDS) [16-19-11](#) for additional information.