

# SPINDLE OIL

ISO VG 10, 22

## Product Description

Special low viscosity multi-purpose lubricating oils produced from high refined base oil, blended with anti-wear and anti-oxidation additives to provide high performance in high speed spindles and automated machine tools.

## Benefits

- Extra low viscosity grade to provide efficient penetration for small and high speed machinery.
- Protect surfaces from wear when increasing load and temperature can cause breakdown of the oil film.
- Effective rust and corrosion inhibitors protect equipment under humid operating conditions.
- Prevent formation of damaging deposits and varnish at elevated temperatures.

## Applications

- Designed for high speed spindles in machine tools.
- Suitable for high speed industrial machines which include plain and rolling bearings.

*The Moving Innovation* 

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## Typical Characteristics

Tests	Methods	Units	Results	
			10	22
Kinematic Viscosity at 40 °C	ASTM D 445	mm <sup>2</sup> /s	10	22
Kinematic Viscosity at 100 °C	ASTM D 445	mm <sup>2</sup> /s	2.8	4.3
Viscosity Index	ASTM D 2270		96	101
Density at 15 °C	ASTM D 4052	g/cm <sup>3</sup>	0.851	0.866
Flash Point (COC)	ASTM D 92	°C	180	204
Pour Point	ASTM D 5950	°C	-9	-9
Rust Prevention	ASTM D 665		Pass	Pass

## Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>



Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.