

Spindle/Needle Bearing Oils

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AMALIE Spindle/Needle Bearing Oils are low viscosity oils used to lubricate the bearings of commercial sewing and textile equipment where the yarn or fabric does not contact the lubricant. These oils are also recommended for high-speed spindle bearings in precision grinders and other machine tools requiring low-viscosity oils. The product offers strong oxidation and rust resistance properties. The higher viscosity index (VI) of these oils reduces the tendency for stray mist or fogging in higher speed applications. **AMALIE Spindle/Needle bearing oils** are suitable for use wherever strong oxidation protection and rust inhibition are required. Not recommended for applications where the spindle oil contacts the yarn or fabric.

Benefits

- Light in Color
- Excellent Corrosion Protection
- Very Good Water Separation Characteristics

TYPICAL INSPECTION DATA

	ISO grade	API Gravity	Flash Point C.	Viscosity cSt@40C	Viscosity cSt@100C	TAN (Total Acid No.)	Pour Point, C.
Spindle Needle Bearing Oils	5	38.5	205	5.0	1.57	0.5	-30
	10	38.5	155	10.0	2.5	0.5	-30
	15	35.5	170	15.0	4.0	0.5	-15
	22	34.5	205	22.0	4.3	0.8	-20
	32	34.0	215	32.0	5.4	0.9	-20

PERFORMANCE APPLICATION CHART

SPECIFICATIONS	
Cincinnati Machine	Meets
Rust, ASTM D 665A, B	Pass
Corrosion, ASTM D 130	Pass
Demulsibility ASTM D 2711(pass)	Pass
Oxidation, S-200 (pass)	Pass
Foam Inhibition, ASTM D 892 (pass)	Pass

Health and Safety

Safety Data Sheets (SDS) are available online at AMALIE.com or from your AMALIE Representative.