



Mobil Velocite™ Oil No. Series

High-performance spindle and hydraulic oils.



The Mobil Velocite™ Oil Numbered Series oils are premium performance products primarily designed for the lubrication of high-speed spindles in machine tools. They are also used in some critical hydraulic, circulation systems, and air line oilers where the appropriate viscosity grade is selected. They are formulated from select high-quality, low-viscosity base oils and additives that impart good resistance to oxidation and protection from rust and corrosion. They possess very good resistance to foaming and separate readily from water.

Benefits	Features
Helps reduce critical deposit formation Improves oil life	Good oxidation resistance
Improves equipment life provides Increased precision long-term	Very good rust and corrosion protection
Resists emulsion formation Keeps moisture out of critical lubrication areas Allows easy removal of moisture from system reservoirs	Effective wear separation

Applications

- High speed spindle bearings in machine tools and equipment where high speeds and fine clearances are involved
- Precision grinders, lathes, jig borers and tracer mechanisms
- Mobil Velocite Oil No 3 is recommended for "zero clearance" type spindle bearings which operate with extremely close clearances
- For sleeve type spindle bearings having greater clearances, the choice of viscosity depends on the relation between clearance and spindle speed
- Low pressure hydraulic systems where appropriate viscosity is selected
- Air line oilers (Mobil Velocite Oil No. 10)
- For some sensitive instruments such as telescopes, laboratory equipment, etc.

Properties and specifications

Property	NO 3	NO 4	NO 6	NO 8	NO 10
Grade	ISO 2		ISO 10	ISO 15	ISO 22
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130			1A	1A	1A
Copper Strip Corrosion, 3 h, 60 C, Rating, ASTM D130	1A	1A			
Density @ 15 C, kg/l, ASTM D4052	0.802	0.822	0.844	0.854	0.862
Flash Point, Cleveland Open Cup, °C, ASTM D920	84	102	180	194	212
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445			2.62	3.28	4
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	2.1	4.83	10	15	22
Pour Point, °C, ASTM D97	-36	-15	-15	-9	-30
Rust Characteristics, Procedure A, ASTM D665	PASS	PASS	PASS	PASS	PASS
Total Acid Number, mgKOH/g, ASTM D974	0.06	0.06	0.06	0.06	0.1

• Typical properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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• Actual benefits will depend upon product selected, operating conditions and applications.

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