Mobil Vactra™ Oil Numbered Series

Premium quality slideway oils for precision machining



Key benefits

- Outstanding anti stick slip characteristics for smooth slideway operation and precision machining
- Extensive approvals or recommendations from over 140+ global equipment builders
- Excellent separability from many aqueous metal working fluids helps reduce maintenance costs

Mobil Vactra Oil Series premium quality slideway oils are designed for all modern machine tools providing outstanding frictional control and accuracy for horizontal and vertical ways.

- **Provides dimensional accuracy even under low feed-rates and high loads**
- **Rapid separation from aqueous cutting fluids**
- **Protects against rust and corrosion**

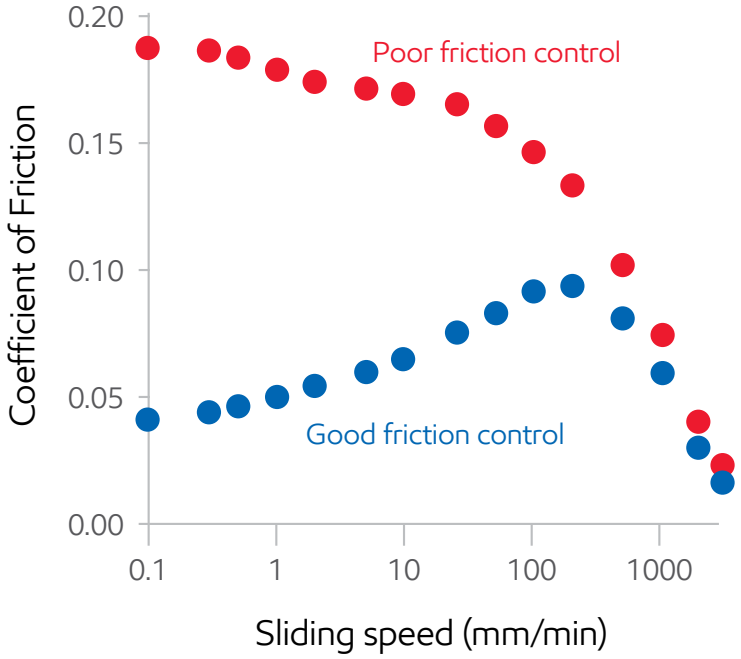
The Mobil Vactra Oil Series is backed up by many years of innovation and expertise in slideway lubrication to meet your highest operational demands.

140+

machine tool OEMs recommend the Mobil Vactra Oil Series

Frictional Characteristics

Mobil Vactra Oil offers a low kinetic friction coefficient for easy start-up. It allows a continuous transition from rest to movement (no stick-slip) with smooth movement even under heavy load. The outstanding lubrication properties of Mobil Vactra Oil provide the backbone for accurate and precision machining.



Test conditions: Slideway Friction Test Rig (University of Darmstadt) - dynamic friction, metal-to-metal

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Separability from Water Based Coolants

Mobil Vactra Oil shows consistently rapid separation from a range of different types of aqueous coolants offering versatility of choice in the machine shop. Outstanding separability of 'tramp oil' from the coolant offers long service coolant life and fewer changes with reduced downtime and low maintenance costs.

Aqueous Coolant Product Type	% Oil Content Concentrate	Mobil Vactra Oil No 2	European Competitor Slideway Oils		
			A	B	C
Milky Emulsion	70	1	1	2	1
Micro Emulsion	40	1	2	1	3
Micro Emulsion	20	1	2	1	1
Synthetic Solution	0	1	2	4	3



Good separability
Easy to remove



Poor separability
Reduces fluid life

Test: 80% aqueous cutting fluid at 10% concentration in 20*dH water with 20% slideway oil after 15mins at 30°C. Test measures speed and degree of separation.

1 = Excellent 2 = Good 3 = Average 4 = Poor separation

Compatibility with Neat Cutting Oils and Other Machine Tool Lubricants

The Mobil Vactra Oil Series has been designed to be compatible with a range of neat cutting fluids and machine tool lubricants such as hydraulic oils, gear oils and greases. By reducing problems due to cross-contamination, this offers the potential benefits of enhanced operational productivity. The Mobil Vactra Oil Series are suitable for combined systems requiring hydraulic, gear and slideway multi-lubrication.

Equipment builder and industry recognition

Product	ISO VG	Approved Fives Cincinnati			Meets DIN 51502 CGLP
		P-53	P-47	P-50	
Mobil Vactra Oil No 1	32	x			x
Mobil Vactra Oil No 2	68		x		x
Mobil Vactra Oil No 3	150				x
Mobil Vactra Oil No 4	220			x	x

Industrial Lubricants

Advancing Productivity™

Safety

By enhancing corrosion protection and coolant separability, Mobil Vactra™ Oil can help reduce maintenance risks and its associated safety risks.

Environmental Care*

Excellent coolant separability can result in long sump life, resulting in less oil waste.

Productivity

Exceptional friction properties enables precision machining and reduced reject rates.

* Visit mobil.eu to learn how certain Mobil-branded lubricants may provide benefits to help reduce environment impact. Actual benefits will depend upon product selected, operating conditions and applications.

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