

ExxonMobil Mobil Vactra 1

Category : Fluid , Lubricant

Material Notes:

The Mobil Vactra Oil Numbered Series are premium-quality lubricants specifically designed to fully meet the requirements for accuracy and parts finish of today's high production machine tools. They are formulated from high-quality base stocks and performance balanced with a progressive additive system that provides low frictional properties, excellent corrosion protection and foam resistance. A unique advanced additive package helps reduce stick-slip and chatter under thin film, boundary lubrication conditions. This allows smooth, uniform motion at design travel speeds. The Mobil Vactra Oil Numbered Series have been optimised to provide excellent separability from aqueous coolants in coolant systems while minimising the corrosive effects of high pH coolants on lubricated surfaces. The base stocks and additive package have been carefully selected to protect slides and ways while still providing good filterability. This is important because reduced flow or plugged applicator filters will increase stick-slip, chatter and wear. The metal-wetting and adhesive agents form uniform films that resist squeezing from way surfaces while the machine is not in operation. Mobil Vactra Oil Numbered Series products are recommended both as slideway lubricants and as fluids for moderate service machine tool hydraulic systems. These oils are designed for use with all combinations of cast iron, steel and non-metallic way materials. Mobil Vactra Oil Numbered Series may be applied by hand, forced-feed lubricator or in flood application by circulation system. Their extreme pressure properties make them suitable for all types of gears found in machine tools. They should not be used in circulation systems where bulk oil temperatures exceed 66°C. Mobil Vactra Oil No. 2 is recommended for horizontal slideways on small to medium size machine tools. It is also suitable for flood application in large machines; Mobil Vactra Oil No. 3 is recommended for dual-purpose gear and way lubrication systems; Mobil Vactra Oil No. 4 is the normal recommendation for large machines where way pressures are high or good precision is required. It is also recommended for vertical and inclined slideways where drain-down can be a problem; Mobil Vactra Oil Numbered Series can be used for lubrication of ballscrews, linear guides, headstocks, translating screws, spur and bevel gears, and lightly loaded worm gears; Applications where conventional mineral oil contamination of the aqueous coolants shortens coolant batch life

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http://www.lookpolymers.com/polymer_ExxonMobil-Mobil-Vactra-1.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.869 g/cc	0.869 g/cc	15°C; ASTM D1298
Viscosity Measurement	96	96	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	31.5 cSt	31.5 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	5.27 cSt	5.27 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Weld Load	200 kg	441 lb (mass)	ASTM D2783
Four Ball Wear	0.250 mm	0.00984 in	20 kg, 54°C, 1800 rpm, 1 hr; ASTM D4172

Thermal Properties	Metric	English	Comments
Pour Point	-30.0 °C	-22.0 °F	ASTM D97
Flash Point	216 °C	421 °F	ASTM D92

Descriptive Properties	Value	Comments
Copper Strip Corrosion	1B	3 hrs @ 100°C
FZG 4-Square Load Support, DIN 51354, Fail Stage	13	
Rust Prevention, Distilled Water	pass	ASTM D665A

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