Mobil Vactra™ Ultra 68

Mobil Industrial , Japan

Way and Slide Lubricants

Product Description

Mobil Vactra™ Ultra 68 is a high precision slideway lubricant specifically designed for linear motion guides, ball screws and slideways of machine tools and metal processing machines. In particular, Mobil Vactra Ultra 68 demonstrates exceptional friction performance and coolant separability.

Features and Benefits

Mobil Vactra Ultra 68 has been specifically designed to provide machinery protection and machining accuracy by satisfying the stringent demands of machine tool slideways. Mobil Vactra Ultra 68 exhibits excellent lubricity and load-carrying performance contributing significantly to improving the quality of machined parts even at sub-micron level.

Mobil Vactra Ultra 68 has been developed with significantly enhanced adhesiveness which prevents lubricants from being washed away from slideways. Lubricant wash-away by coolant can be responsible for abnormal noises, increase in sliding resistance, overload of sliding motors stopping operations and decrease in machining accuracy. Mobil Vactra Ultra 68 can help prevent these disturbances, even when high-level washing performance coolants are used.

Mobil Vactra Ultra 68 can help minimize formation of adhesive deposits on machine tool slideways due to its excellent compatibility with coolants.

In addition, Mobil Vactra Ultra 68 demonstrates outstanding separability from coolants which allows the machine tool to operate with optimal precision and helps maximize the life and performance of coolants.

Features	Advantages and Potential Benefits
Controlled frictional characteristics	Reduce stick slip and improve machining accuracy even at sub-micron level
Adhesiveness	Prevent washing lubricant out of the critical surfaces
Water and Aqueous Coolant Separability	Helps improve the life and performance of many aqueous coolants
Long term rust and corrosion protection	Helps reduce the deterioration of sliding surfaces in the presence of water and aqueous coolants

Applications

Mobil Vactra Ultra 68 is suitable for the following applications:

- Machine tools using aqueous coolants
- Lubrication of ball screws, linear motion guides (linear motion rolling bearings), head stocks and feeding screws
- Machine tools with shorter coolant replacement intervals due to mixing of slideway lubricants in the coolants
- Machine tools with the formation of adhesive substances on sliding surface and resultant negative effects in lubrication

Specifications and Approvals

This product has the following approvals:
Takamatsu Machinery

This product meets or exceeds the requirements of:

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DIN 51502:1990-08 CGLP

Properties and Specifications

Property	
Grade	ISO 68
Viscosity Index, ASTM D2270	123
Density @ 15 C, g/ml, ASTM D4052	0.863
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	9.9
Pour Point, °C, ASTM D97	-21
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	70
Flash Point, °C, ASTM D92	256

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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