



## 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

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| <b>This product has the following approvals:</b> |
| Takamatsu Machinery                              |

|   |
|---|
| <b>This product meets or exceeds the requirements of:</b> |
|---|

**This product meets or exceeds the requirements of:**

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, mm <sup>2</sup> /s, ASTM D445 | 9.9    |
| Pour Point, °C, ASTM D97                                   | -21    |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /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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