Mobil™ Slideway Oil Ultra

Mobil Industrial , New Caledonia

Way and Slide Lubricants

Product Description

Mobil™ Slideway Oil Ultra are high-quality slideway lubricants specifically designed for the lubrication of linear motion guides, ball screws and slideways of high precision machine tools and metal processing machines. In particular, Mobil Slideway Oil Ultra demonstrate exceptional friction performance and coolant separability.

Mobil™ Slideway Oil Ultra are carefully formulated from high-quality base stocks and the latest advanced additive system that provides controlled frictional properties for high precision machining, compatibility with aqueous metal working fluids and corrosion protection of parts and equipment. The unique additive package provides excellent frictional properties on a wide variety of way materials, including steel on steel and steel on polymer, reducing stick-slip and chatter. This allows smooth, uniform motion at design travel speeds enhancing machine productivity and very high accuracy helping to prolong tool life and enhance surface finish. Mobil Slideway Oil Ultra have also been optimized to provide separability from many aqueous coolants.

Features and Benefits

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

Mobil Slideway Oil Ultra have been developed with 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 Slideway Oil Ultra can help prevent these disturbances, even in applications with high-levels of coolant wash-away effect.

Mobil Slideway Oil Ultra demonstrate outstanding separability from coolants which allows the machine tool to operate with high precision and help maximize the life and performance of coolants.

In addition, Mobil Slideway Oil Ultra have been tested and optimized for compatibility with Mobil Vactra™ Oil Numbered Series.

Features	Advantages and Potential Benefits
Controlled frictional characteristics	Reduces stick slip and improves machining accuracy for high-precision applications even at sub-micron level
Adhesiveness	Prevents washing lubricant out of 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
Multi-material Capabilities	Suitable for a wide range of slideway material combinations allowing for product consolidation

Applications

Mobil Slideway Oil Ultra are recommended for the lubrication of machine tool slideway systems. They are designed for use with combinations of cast iron, steel and non-metallic way materials. Mobil Slideway Oil Ultra may be applied by hand, forced-feed lubricator or in flood application by circulation system.

- Recommended for horizontal slideways on small to medium size machine tools in high precision applications. It is also suitable for circulating

application in large machines and as a moderate duty hydraulic fluid.

- Can be used for lubrication of ball screws, linear guides, headstocks, translating screws.
- Recommended for applications where oil contamination of the aqueous coolants shortens coolant batch life.

Specifications and Approvals

This product meets or exceeds the requirements of:	68	220
China GB 11118.1-2011, L-HG	X	X
DIN 51502:1990-08 CGLP	X	X

Properties and Specifications

Property	68	220
Grade	ISO 68	ISO 220
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1B	1B
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	12	12
Flash Point, Cleveland Open Cup, °C, ASTM D92	245	255
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	70.5	218.4
Pour Point, °C, ASTM D97	-12	-12

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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