

Uniway XS

High Performance Slideway Oil

Uniway XS slideway oil is proud of the world top-level friction characteristics. It was developed for high efficiency machine tools, which operate with greater precision and at higher speeds. Uniway XS dramatically reduces sliding friction and has excellent start-up properties. It reduces stick-slip motion at slow feed speeds and table float at high speeds to enable more precise control of the machine. Uniway XS also separates readily from water soluble cutting fluids, which is beneficial in preventing decomposition of water soluble cutting fluids. Uniway XS is specialized oil designed for slideway lubrication in high precision machine tools, and performs well in all machining conditions.

● Special Features

1. Excellent friction properties

Uniway XS with a low coefficient of friction is superior at start-up. Uniway XS also helps prevent stick-slip at slow feed speeds for more accurate machining.

2. Superior oil film strength

Uniway XS which has good oil stickiness property to sliding surfaces forms thick oil films even when working under high load conditions. This helps prevent table lift at high feed speeds, contributing to high machining accuracy. Even on columns and other vertical slideways, an adequate oil film is maintained to provide smooth lubrication.

3. Guaranteed Flash Points above 250 °C

Uniway XS (ISO VG 68 or 220) has guaranteed flash points above 250 °C.

4. Rapid separation from water soluble cutting fluids

Uniway XS separates readily from water soluble cutting fluids. This helps prevent decomposition of the cutting fluid so it can be used for longer periods.

5. Protects against corrosion

Uniway XS has low corrosivity to iron and copper alloys and cast iron, so it prevents rust and staining. It also helps prevent corrosion of slideways, whether made of bare metal or coated with special polymers.

● Grades and applications

Uniway XS is available in three grades: 32, 68 and 220. Uniway XS is designed for lubrication of slideways under most any conditions for speeds from low to high.

● Containers

200 liter drums & 20 liter pails

● Typical properties of Uniway XS

Grade		32	68	220
Color	(ASTM)	L1.5	L2.0	L2.5
Density	(15 °C) g/cm ³	0.874	0.874	0.894
Kinematic viscosity	(40 °C) mm ² /s	33.6	69.3	215.5
	(100 °C) mm ² /s	5.69	9.29	19.1
Viscosity index		109	113	99
Acid number	mgKOH/g	0.17	0.16	0.15
Flash point	(COC) °C	224	268	294
Pour point	°C	-37.5	-27.5	-17.5
Rust prevention	(Distilled water, 60 °C, 24h)	No rust	No rust	No rust
Copper strip corrosion	(100 °C, 3h)	1	1	1

Note: the typical properties are subject to change without notice. (September, 2010)



Handling Precautions

▼ Follow these precautions when handling this product.

! CAUTION Handling Precautions	<ul style="list-style-type: none">● <u>Inflammation can occur if oil enters the eyes.</u> When handling this oil, wear <u>protective goggles</u> or take other measures to <u>prevent eye contact</u>.● <u>Inflammation can occur if oil comes into contact with skin.</u> When handling this oil, wear <u>protective gloves</u> or take other measures to <u>prevent skin contact</u>.● Do not drink this oil. (Swallowing this oil can cause diarrhea and nausea.)● <u>Keep out of reach of children.</u>● Read the Material Safety Data Sheet (MSDS) for this product before using the product. Obtain the Material Safety Data Sheet from where you purchased the product.
First Aid	<ul style="list-style-type: none">● In case of eye contact, rinse eyes thoroughly with clean water and consult with a physician.● In case of skin contact, wash skin thoroughly with soap and water.● If this oil is swallowed, do not induce vomiting. Consult with a physician immediately.
Disposal of Used Oil and Containers	<ul style="list-style-type: none">● Do not apply pressure to empty containers. The containers may burst if pressure is applied.● Do not weld, heat, drill, or cut the containers. The remaining oil may ignite and the containers may explode.● Follow all applicable laws and regulations when disposing of used oil or containers. If you are unsure of the proper disposal methods, consult first with the seller of the oil.
Storage Method	Seal the container tightly after use in order to prevent dirt, moisture, etc., from entering the oil. Store in a dark location. Avoid direct sunlight.