

# UNIWAY XS

## High-Performance Slideway Oil

**UNIWAY XS** is a slideway oil developed to meet the demands of high-precision and high-speed machining in modern machine tools. It boasts world-class sliding characteristics. Additionally, it has excellent start-up properties, preventing stick-slip at low feed speeds and uplift of table at high speeds, enabling precise control of the machine. **UNIWAY XS** also excels in separating from water-soluble cutting fluids, effectively preventing their decay. This specialized oil is designed for slideway lubrication in high-precision machine tools and performs well under a wide range of conditions.

### ● SPECIAL FEATURES

#### 1. World-Class Sliding Characteristics

**UNIWAY XS** has a low coefficient of friction and excellent start-up properties. It also prevents stick-slip at low feed speeds, ensuring high positioning accuracy and enabling precise machining.

#### 2. Superior Oil Film Strength

**UNIWAY XS** has excellent adhesion to sliding surfaces, forming strong oil films even under high load conditions. This helps prevent uplift of table at high feed speeds, enabling precise control. Additionally, it maintains an adequate oil film on vertical slideways, such as columns, ensuring smooth lubrication.

#### 3. Flash Points above 250°C

**UNIWAY XS 68** and **XS 220** have guaranteed flash points above 250°C.

#### 4. Excellent Separation from Water-Soluble Cutting Fluids

**UNIWAY XS** excels in separating from water-soluble cutting fluids, making it easy to remove even if mixed. This helps prevent the cutting fluid from decomposing, allowing for longer use.

#### 5. Excellent Corrosion Protection

**UNIWAY XS** does not contain components that corrode iron or copper alloys, effectively preventing rust and staining. Additionally, it prevents corrosion on slideways, whether they are made of metal or coated with special resins.

### ● GRADES

**UNIWAY XS** is available in three grades: 32, 68 and 220. These numbers represent the ISO viscosity grades, allowing you to choose the optimal viscosity based on the sliding conditions.

### ● CONTAINERS

200-liter drum and 20-liter pail can

## ● TYPICAL PROPERTIES OF UNIWAY XS

Grade			32	68	220
Color	(ASTM)		L0.5	L1.0	L2.5
Density	(15°C)	g/cm <sup>3</sup>	0.874	0.882	0.895
Kinematic viscosity	(40°C)	mm <sup>2</sup> /s	32.3	72.9	220
Kinematic viscosity	(100°C)	mm <sup>2</sup> /s	5.54	9.33	19.3
Viscosity index			108	104	99
Acid number		mgKOH/g	0.18	0.18	0.18
Flash point	(COC)	°C	222	260	292
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 may be changed without notice. (May 2024)



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Additives
<b>Hazard pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Harmful to aquatic life Harmful to aquatic life with long lasting effects
<b>Precautionary Statements:</b>	<ul style="list-style-type: none"> <li>• Do not handle until all safety precautions have been read and understood.</li> <li>• Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li> <li>• Avoid release to the environment.</li> <li>• Wash hands thoroughly after handling.</li> <li>• Do not eat, drink or smoke when using this product.</li> </ul>
<b>Prevention</b>	
<b>Response</b>	<ul style="list-style-type: none"> <li>• IF SWALLOWED: Immediately call a POISON CENTER/doctor.</li> <li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li> <li>• IF ON SKIN: Wash with plenty of soap and water.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li> <li>• Containers that have been opened must be tightly sealed.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li> </ul>