

IND-2502-2405E

# UNIWAY SF

## Hydraulic and Slideway Oil

### with Excellent Water Separation Properties

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**UNIWAY SF** is a slideway oil that also serves as a hydraulic fluid. **UNIWAY SF** is ideal for machine tools that use water-soluble cutting fluids or have hydrostatic slideways. In particular, **UNIWAY SF** excels in separating from water-soluble cutting fluids. Therefore, the floating slideway oil can be easily recovered or removed. This leads to the prevention of decay of the water-soluble cutting fluid. **UNIWAY SF** shows good sliding properties under general sliding conditions, as it is formulated with extreme pressure agents that are carefully selected using our proprietary additive formulation techniques. **UNIWAY SF** can be used in a wide variety of sliding conditions as a hydraulic oil or slideway oil, emphasizing production efficiency in machining processes.

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#### ● SPECIAL FEATURES

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

**UNIWAY SF** separates from water-soluble cutting fluids much faster than conventional slideway oils. This helps prevent the cutting fluid from becoming decayed, allowing it to be used for longer periods.

##### 2. Good Sliding Properties

**UNIWAY SF** is formulated with carefully selected extreme pressure agents using our proprietary additive formulation techniques. Therefore, **UNIWAY SF** exhibits good sliding properties under general sliding conditions.

##### 3. Good Corrosion Protection

**UNIWAY SF** does not contain components that corrode iron or copper alloys, effectively preventing the formation of rust and stains.

##### 4. Ideal for Use as a Hydraulic Fluid

###### \* Excellent thermal stability

Thanks to its excellent thermal and oxidation stability, **UNIWAY SF** resists sludge formation. Therefore, **UNIWAY SF** ensures smooth operation even when used as a hydraulic fluid in machine tools.

###### \* Long-term usability

**UNIWAY SF** can withstand repeated use for long-term due to its superior separation properties from water-soluble cutting fluids.

#### ● GRADES

**UNIWAY SF** 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 and the specifications of the hydraulic equipment.

#### ● CONTAINERS

200-liter drum and 20-liter pail can

## ● TYPICAL PROPERTIES OF UNIWAY SF

Grade			32	68	220
Color	(ASTM)		L0.5	L0.5	L2.0
Density	(15°C)	g/cm <sup>3</sup>	0.875	0.883	0.895
Kinematic viscosity	(40°C)	mm <sup>2</sup> /s	33.8	67.6	218
Kinematic viscosity	(100°C)	mm <sup>2</sup> /s	5.62	8.71	19.0
Viscosity index			104	100	98
Acid number		mgKOH/g	0.30	0.28	0.30
Flash point	(COC)	°C	224	246	284
Pour point		°C	- 30.0	- 20.0	- 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>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>