

IND-2504-2007E

PRODUCT

BULLETIN

UNIWAY D A LUBRICANT FOR MACHINE TOOL SLIDEWAYS

UNIWAY D is a slideway oil which also serves as a hydraulic fluid. **UNIWAY D** is ideal for machine tools with oil static pressure sliding surfaces and others. **UNIWAY D** with low coefficient of friction prevents stick-slip during low speed feed. In addition, **UNIWAY D** makes high precision machining possible because it keeps the change of the floating up of the table small at high speed feed. **UNIWAY D** is the hydraulic oil or the slideway oil specially designed for the sliding surface of machine tools and can be used under a wide range of conditions.

• Special Features

1. Superior lubrication performance

UNIWAY D does not cause stick-slip or jump at low speed feed, and it shows excellent lubrication performance. **UNIWAY D** makes high precision machining possible because it reduces the change in the floating up of the table even at high speed feed like a flat mill.

2. Ideal for use in hydraulic power unit

Thanks to its excellent thermal stability and oxidation stability, **UNIWAY D** resists sludge formation. Therefore, **UNIWAY D** can make a smooth operation, even if it is also used as a hydraulic fluid of the machine tool.

3. Can be used for longer periods

UNIWAY D occurs easily neither oxidation nor sludge, so it can be used for a long time.

4. Good corrosion protection

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UNIWAY D is excellent in corrosion resistance of iron and copper alloys and prevents the formation of rust and stain.

Grades and applications

UNIWAY D is available in two grades: 32 and 68. **UNIWAY D** can be used for lubricating oil on sliding surfaces in a wide range of conditions from low speed to high speed. **UNIWAY D** can also be used as a hydraulic fluid for machine tools.

Containers

200-liter drums and 20-liter cans

Grade			32	68
Color	(ASTM)		L6.5	L6.5
Density	(15 °C)	g/cm ³	0.874	0.888
Kinematic viscosity	(40 °C)	mm ² /s	31.6	68.5
	(100 °C)	mm ² /s	5.52	8.92
Viscosity index			110	103
Acid number		mgKOH/g	0.32	0.32
Flash point	(COC)	°C	212	230
Pour point		°C	- 15	- 15
Rust prevention (Distilled water, 60 °C, 24h)			No rust	No rust
Copper strip corrosion (100 °C, 3h)			1	1
Friction coefficient (Pendulum type Π)			0.12	0.12
	induitanii type 1	- /		

• Typical properties of UNIWAY D

Note: The typical properties may be changed without notice. (June 2011)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil, Additives		
Precautionary pictograms:	Not applicable		
Signal word:	Not applicable		
Hazard Statement:	Not applicable		
Precautionary Statements:	• Do not handle until all safety precautions have been read and understood.		
Prevention	• Wear protective gloves/protective clothing/eye protection/face protection.		
	• Do not allow the eyes to become exposed to the product. Do not swallow the product.		
	Wash hands thoroughly after handling.		
	• Do not eat, drink or smoke when using this product.		
Response	• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.		
	• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
	• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and		
	immediately contact a physician.		
	• IF ON SKIN: Wash with plenty of soap and water.		
Storage	• The product must be stored in a cool, well-ventilated location where it will not be exposed		
	to direct sunlight.		
	• Containers that have been opened must be tightly sealed.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international		
	regulations.		
	• If there are any doubts about proper methods of handling the product, contact the point of		
	purchase before proceeding with usage.		