

IND-2504-2405E

UNIWAY D

Hydraulic and Slideway Oil

UNIWAY D is an ideal hydraulic and slideway oil for machine tools with hydrostatic slideways and other similar applications. UNIWAY D has a low coefficient of friction, preventing stick-slip during low-speed feed. Additionally, it enables high-precision machining by minimizing the change in uplift of table during high-speed feed. UNIWAY D is specially designed for the sliding surfaces 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 jumping at low-speed feed, exhibiting excellent lubrication performance. It also enables high-precision machining by minimizing the change in uplift of table even at high-speed feed, such as in planers.

2. Ideal for Use as a Hydraulic Fluid

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

3. Long-term Usability

UNIWAY D is resistant to oxidation and sludge formation, allowing for extended use over long periods.

4. Good Corrosion Protection

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

● GRADES

UNIWAY D is available in two grades: 32 and 68. 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 D

Grade			32	68
Color	(ASTM)		L6.0	L6.0
Density	(15°C)	g/cm ³	0.878	0.885
Kinematic viscosity	(40°C)	mm ² /s	32.7	67.1
Kinematic viscosity	(100°C)	mm ² /s	5.62	8.80
Viscosity index			111	104
Acid number		mgKOH/g	0.29	0.31
Flash point	(COC)	°C	220	234
Pour point		°C	- 17.5	- 15.0
Rust prevention (Distilled water , 60°C, 24h)			No rust	No rust
Copper strip corrosion (100°C, 3h)			1	1
Friction coefficient (Pendulum type II)			0.12	0.12

Note: The typical properties may be changed without notice. (May 2024)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil(s), Additives
Hazard pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Harmful to aquatic life Harmful to aquatic life with long lasting effects
Precautionary Statements: Prevention	<ul style="list-style-type: none">• Do not handle until all safety precautions have been read and understood.• 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.• Avoid release to the environment.• Wash hands thoroughly after handling.• Do not eat, drink or smoke when using this product.
Response	<ul style="list-style-type: none">• IF SWALLOWED: Immediately call a POISON CENTER/doctor.• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.