

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

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

● Typical properties of UNIWAY D

| 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 II) | | | 0.12 | 0.12 |

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: | |
| 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.• 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 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 | <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. |