

HIGH SPEED FLUID

Bearing Oil for High-Speed Spindles

HIGH SPEED FLUID is a specialized bearing oil for the high-speed spindles of machine tools, formulated with a special ultra-low viscosity refined base oil, antioxidants, anti-wear agents, and anti-foaming agents. Despite its ultra-low viscosity, it provides excellent lubricity and stability, ensuring long-term lubrication performance.

● SPECIAL FEATURES

1. Superior Lubricity

HIGH SPEED FLUID offers superior lubricity despite its ultra-low viscosity, thanks to the blend of special base oils and anti-wear additives.

2. Excellent Cooling Properties

Thanks to its outstanding fluidity, **HIGH SPEED FLUID** possesses excellent cooling capabilities, facilitating the measures against heat generation during machining processes.

3. Low Mist Generation

HIGH SPEED FLUID exhibits low volatility due to the use of special paraffinic base oils, resulting in reduced mist generation.

4. Excellent Separation from Water-Soluble Cutting Fluids

HIGH SPEED FLUID exhibits excellent separability from water-soluble cutting fluids, which helps to minimize contamination on the spindle.

5. Excellent Anti-Foaming Properties

HIGH SPEED FLUID is formulated with an excellent anti-foaming agent, which helps prevent issues in the circulation system caused by foaming.

● APPLICATIONS

Lubrication of high-speed spindle bearing (particularly optimal for jet lubrication)

● CONTAINERS

200-liter drum and 20-liter pail can

● TYPICAL PROPERTIES OF HIGH SPEED FLUID

Color (ASTM)		L0.5
Density (15°C)	g/cm ³	0.758
Kinematic viscosity (40°C)	mm ² /s	1.60
Kinematic viscosity (100°C)	mm ² /s	0.790
Flash point (COC)	°C	100
Pour point		-12.5
Acid number	mgKOH/g	1.25
Copper strip corrosion (100°C, 3h)		1
Rust prevention (distilled water, 60°C, 24 h)		No rust

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:	
Signal word:	Danger
Hazard Statement:	Combustible liquid May be fatal if swallowed and enters airways
Precautionary Statements:	<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.• Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.• 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.• Do NOT induce vomiting.
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.• Store in a well ventilated place.• Store locked up.
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.