

RELIACUT FE-P 25

Fatty Oil Type, Anti-mist Cutting and Grinding Fluid

RELIACUT FE-P25 is a anti-mist type cutting and grinding fluid blended with special high-flash point synthetic oil and friction modifiers. Because **RELIACUT FE-P25** is formulated with synthetic oil, it has excellent workability and a high flash point despite its low viscosity. **RELIACUT FE-P25** is suited for processing that requires lubricity such as machining center and automatic lathe processing.

●Special Features

1. Guaranteed Flash point above 250°C

Since **RELIACUT FE-P25** uses a special high flash point synthetic oil and high flash point additives, the flash point above 250°C is guaranteed despite its low viscosity.

2. Excellent Cutting and Grinding Performance

Because the synthetic oil of **RELIACUT FE-P25** has an excellent oiliness effect, it provides improved finished surface precision and longer tool life.

3. Excellent Anti-mist Performance

RELIACUT FE-P25 contains special mist inhibitor that suppresses oil mist generated by shearing during machining. In addition, since synthetic oil does not contain low volatile matter, it suppresses fumes (evaporation) generated by processing heat. Therefore, **RELIACUT FE-P25** improves the working environment.

4. Low odor

Since **RELIACUT FE-P25** does not contain sulfur-based extreme pressure agents, it has little oil odor and improves the working environment.

5. Visualization of the Machining Point

The machining point can be easily observed, because of the light color and reduced floating mist.

6. High Viscosity Index and Low Pour Point

Since **RELIACUT FE-P25** uses synthetic oil, it has high viscosity index and low pour point, thus can be used over wide temperature ranges.

7. Excellent stability

RELIACUT FE-P25 uses synthetic oil with excellent chemical stability, so it can be used for a long time with less deterioration than vegetable oil based cutting oil.

● Handling requirements for liquids (flash point: above 250°C) under Japan's Fire Service Law

1. Under the Fire Service Law, when liquids (flash point: above 250°C) are stored together with hazardous materials, they must be kept at least one meter apart.
2. In quantities of 2 kL and above, liquids (flash point: above 250°C) are considered "Designated Hazardous Materials" and are subject to municipal regulations (in Japan); be sure to familiarize yourself with rules and regulations in your area.

●Applications

Suited for general cutting machining of non-ferrous metals and ferrous materials such as cast iron and carbon steel.

●Containers

200-liter drum

•Typical properties of RILIACUT FE-P25

Appearance		Light yellow
Color	(ASTM)	L0.5
Density	(15°C) g/cm ³	0.902
Viscosity	(40°C) mm ² /s	24.8
Flash point	(COC) °C	284
Pour point	°C	-30.0
Acid number	mgKOH/g	0.77
Copper strip corrosion (100°C, 1h)		1
Fatty oil content	mass%	>90
Sulfur content	mass%	0

Note: The typical properties are subject to change without notice. (January 2023)



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:	<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.