



RELIACUT FM10

Non-chlorine Fat-based Anti-mist-reinforced Non-water-soluble Cutting and Grinding Fluid

RELIACUT FM10 is a chlorine-free fat-based anti-mist-reinforced type non-water-soluble cutting fluid blended with the new oiliness agent and mist inhibitor. **RELIACUT FM10** is the fluid in consideration of the work environment and workability such as odor and color, which can be used for light cutting and grinding of a wide range of materials such as non-ferrous metal, low-carbon steel and low-alloy steel.

● Special Features

1. Excellent Cutting and Grinding Performance

Because **RELIACUT FM10** is formulated with highly refined low viscosity base oil and special oiliness agent, it can improve the accuracy in finishing process by the well balanced cooling performance, permeability and processing performance.

2. Excellent Anti-mist Performance

RELIACUT FM10 contains special mist inhibitor that suppresses oil mist generated during the machining, thus improves the working environment.

3. Low Odor

Since the additives of **RELIACUT FM10** are low odor, the work environment is improved.

4. Visualization of the Machining Point

The machining point can be seen easily, because of the reduced floating mist and thin fluid color on the machining point.

5. Superior in Economy

Since the amount of fluid consumed by adhering to the work-pieces and chips is reduced, **RELIACUT FM10** is economically advantageous due to its low viscosity.

● Applications

General cutting*: non-ferrous metal

* Lathing, drilling, milling

Light-cutting: cast iron, low carbon steel,
low-alloy steel, etc.

● Containers

200-liter drum, 20-liter can

● Typical Properties of RELIACUT FM10

Appearance		Light yellow
Color(ASTM)		L0.5
Density(15°C)	g/cm ³	0.845
Kinematic viscosity(40°C)	mm ² /s	7.98
Kinematic viscosity(100°C)	mm ² /s	2.40
Flash point(COC)	°C	164
Pour point	°C	-25
Acid number	mgKOH/g	0.03
Copper corrosion(100°C, 1h)		1
Fatty content	mass%	5
Sulfur content	mass%	0.12

Note: The typical properties may be changed without notice. (February 2012)



Handling Precautions

▼ Follow these precautions when handling this product.

<p>! CAUTION</p> <p>Handling Precautions</p>	<ul style="list-style-type: none">● <u>Inflammation can occur if oil enters the eyes.</u> When handling this oil, wear <u>protective goggles</u> or take other measures to <u>prevent eye contact</u>.● <u>Inflammation can occur if oil comes into contact with skin.</u> When handling this oil, wear <u>protective gloves</u> or take other measures to <u>prevent skin contact</u>.● <u>The inhalation of mist may cause discomfort.</u> When handling this oil, wear a <u>respirator</u> or take other measures to <u>prevent mist inhalation</u>.● Do not drink this oil. (Swallowing this oil can cause diarrhea and nausea.)● <u>Keep out of reach of children.</u>● Read the Safety Data Sheet (SDS) for this product before using the product. Obtain the SDS from where you purchased the product.
<p>First Aid</p>	<ul style="list-style-type: none">● In case of eye contact, rinse eyes thoroughly with clean water and consult with a physician.● In case of skin contact, wash skin thoroughly with soap and water.● If mist is inhaled, move the person to a location with fresh air, wrap the person in a blanket, keep the person warm and quiet, and consult with a physician.● If this oil is swallowed, do not induce vomiting. Consult with a physician immediately.
<p>Disposal of Used Oil and Containers</p>	<ul style="list-style-type: none">● Do not apply pressure to empty containers. The containers may burst if pressure is applied.● Do not weld, heat, drill, or cut the containers. The remaining oil may ignite and the containers may explode.● Follow all applicable laws and regulations when disposing of used oil or containers. If you are unsure of the proper disposal methods, consult first with the seller of the oil.
<p>Storage Method</p>	<p>Seal the container tightly after use in order to prevent dirt, moisture, etc., from entering the oil. Store in a dark location. Avoid direct sunlight.</p>