

# RELIACUT FM 15

## Fat-based Anti-mist-reinforced Non-water-soluble Cutting and Grinding Fluid with High flash point

**RELIACUT FM 15** is a fat-based non-water-soluble cutting fluid superior in anti-mist performance. It is blended with high performance high flash point base oil and friction modifiers. It is suitable lubricant for general machining such as machining center and automatic plate processing. It can be applied to the processing of a wide range of materials from nonferrous metals such as copper and aluminum materials to carbon steel.

### ● Special Features

#### 1. Excellent Cutting and Grinding Performance

Because **RELIACUT FM 15** is formulated with highly refined base oil and oiliness agent, it demonstrates excellent machining performance in general cutting and grinding.

#### 2. Excellent Anti-mist Performance

**RELIACUT FM 15** contains special mist inhibitor that suppresses oil mist generated during the machining, and thus it improves the working environment.

#### 3. Low Odor

**RELIACUT FM 15** has very little odor, because it uses a highly refined base oil and low odor additives. Thus, the work environment is improved. It can also be used for customers concerned about odor such as precision processing.

#### 4. Visualization of the Machining Point

The machining point can be seen easily thanks to reduced floating mist and thin fluid color on the machining point.

#### 5. High flash point

Since **RELIACUT FM 15** has a high flash point compared to other lubricants in the market in same viscosity grade, and thus it is allowed to be stored in bigger quantity.

#### 6. Gentle for skin roughness

**RELIACUT FM 15** may prevent skin irritation compared to the conventional cutting fluids because it uses highly refined base oils with required viscosity.

### ● Applications

Processing of non-ferrous metals and steel materials such as cast iron and carbon steel at machining centers and automatic plate processing

### ● Containers

200-liter drum, 20-liter can

### ● Typical Properties of RELIACUT FM 15

Appearance		Light yellow
Color(ASTM)		L0.5
Density(15°C)	g/cm <sup>3</sup>	0.838
Kinematic viscosity(40°C)	mm <sup>2</sup> /s	16.3
Flash point(COC)	°C	212
Pour point	°C	-17.5
Acid number	mgKOH/g	0.01
Copper corrosion(100°C, 1h)		1
Fatty content	mass%	10
Sulfur content	mass%	0

Note: The typical properties may be changed without notice. (April 2018)



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil, Additives
<b>Precautionary pictograms:</b>	
<b>Signal word:</b>	Danger
<b>Hazard Statement:</b>	May be fatal if swallowed and enters airways
<b>Precautionary Statements:</b>	
<b>Prevention</b>	<ul style="list-style-type: none"><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li><li>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li><li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li><li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li><li>• IF ON SKIN: Wash with plenty of soap and water.</li><li>• Do NOT induce vomiting.</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li><li>• Containers that have been opened must be tightly sealed.</li><li>• Store locked up.</li></ul>
<b>Disposal</b>	<ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li><li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li></ul>