

# RELIACUT AY25

## Active Sulfur Type, Chlorine-free Anti-mist Cutting and Grinding Fluid

**RELIACUT AY25** is a chlorine-free anti-mist type cutting fluid blended with new active sulfurized extreme pressure agents, friction modifiers and multiple oiliness agents. It is suitable for lathe turning, broaching, tapping and rolling of difficult-to-cut materials such as heat-resistant alloys, stainless steels and hardened steels. It is also prepared for automatic lathe processing (Petermann type) of steel materials including stainless steel. **RELIACUT AY25** corresponds to JIS K2241 type N4, No.8.

### ● Special Features

#### 1. Excellent Cutting and Grinding Performance

Because **RELIACUT AY25** is blended with highly refined base oils, new special active sulfurized extreme-pressure agents, friction modifiers and oiliness agents, it provides excellent cutting and grinding performance in machining processing where finished surface precision and longer tool life are required.

#### 2. Excellent Anti-mist Performance

**RELIACUT AY25** contains special mist inhibitor that suppresses oil mist generated during machining, thus can improve the working environment.

#### 3. Low odor

Since the additives of **RELIACUT AY25** are low odor, the work environment is improved.

#### 4. Visualization of the Machining Point

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

### ● Applications

Suited for lathe turning, broaching, tapping and rolling processing of difficult-to-cut materials such as heat-resistant alloys, stainless steels and hardened steels.

Suited for automatic lathe processing including Petermann type of steel materials including stainless steel.

### ● Containers

200-liter drum and 20-liter can

### ● Typical Properties of RELIACUT AY25

Appearance		Light brown
Color (ASTM)		L3.0
Density (15°C)	g/cm <sup>3</sup>	0.922
Kinematic viscosity (40°C)	mm <sup>2</sup> /s	27.3
Flash point (COC)	°C	180
Pour point	°C	-15.0
Acid number	mgKOH/g	4.40
Copper strip corrosion(100°C, 1h)		4
Fatty oil content	mass%	20
Sulfur content	mass%	4.39

Note: The typical properties may be changed without notice. (June 2023)



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Additives
<b>Hazard pictograms:</b>	
<b>Signal word:</b>	Warning
<b>Hazard Statement:</b>	Causes serious eye irritation Harmful to aquatic life Harmful to aquatic life with long lasting effects
<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>• Avoid release to the environment.</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/doctor.</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>• IF IN EYES: Rinse cautiously with water for several minutes.</li><li>• Remove contact lenses, if present and easy to do. Continue rinsing.</li><li>• If eye irritation persists: Get medical advice/attention.</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></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>