

# RELIACUT DH 10

## Inactive Sulfur Type, Non-chlorinated Anti-mist Water-insoluble Cutting Fluid

**RELIACUT DH 10** is an inactive sulfur type, non-chlorinated anti-mist water-insoluble cutting and grinding fluid that uses the new unique inactive sulfurized extreme-pressure agents and friction modifiers. The processing performance of **RELIACUT DH 10** has been improved in machining performance, since it is formulated with an increased amount of fatty oil content and sulfur content than **RELIACUT DM 10**. **RELIACUT DH 10** is suitable in general processing such as lathe turning and machining center processing where finished surface precision and longer tool life are required. **RELIACUT DH 10** is the ideal oil for many metalworking applications of wide range of materials such as non-ferrous metals (copper materials), carbon steel and alloy steel. **RELIACUT DH 10** corresponds to JIS K 2241 Type N3, No.8.

### ● Special Features

#### 1. Excellent Cutting and Grinding Performance

Because **RELIACUT DH 10** is blended with highly refined low viscosity base oils, new unique inactive sulfurized extreme-pressure agents and friction modifiers, it demonstrates excellent machining performance in general cutting and grinding processes where finished surface precision and longer tool life are required.

#### 2. Excellent Anti-mist Performance

**RELIACUT DH 10** contains special mist prevention agents that reduce the amount of oil mist formed during machining. Thus, improved working environment would be obtained.

#### 3. Low odor

Since the additives of **RELIACUT DH 10** are low odor, the work environment is improved.

#### 4. Visualization of the Machining Point

**RELIACUT DH 10** enables users to observe the machining point easily because of the reduced floating mist and light oil color.

#### 5. Superior in economy

Due to its low viscosity, **RELIACUT DH 10** is superior in economy because it can reduce oil amount

which is lost by adhering to the workpieces and cutting powder.

### ● Applications

Lathe turning, machining center processing and grinding of tools/gears for non-ferrous metals and ferrous materials including carbon steel and alloy steel.

### ● Containers

200-liter drums and 20-liter cans

### ● Typical Properties of RELIACUT DH 10

Appearance		Yellow
Color (ASTM)		L2.0
Density (15°C)	g/cm <sup>3</sup>	0.868
Kinematic viscosity (40°C)	mm <sup>2</sup> /s	12.0
Flash point (COC)	°C	168
Pour point	°C	-17.5
Acid number	mgKOH/g	1.83
Copper strip corrosion (100°C, 1h)		1
Fatty oil content	mass%	15
Sulfur content	mass%	1.91

Note: The typical properties may be changed without notice. (January 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>	Danger
<b>Hazard Statement:</b>	Causes serious eye irritation May be fatal if swallowed and enters airways
<b>Precautionary Statements:</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/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><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>