

# RELIACUT DM20

## Inactive Sulfur Type, Non-chlorinated Anti-mist Cutting and Grinding Fluid

**RELIACUT DM20** is a chlorine-free anti-mist type cutting and grinding fluid formulated with high-performance base oil of high flash point and the new unique inactive sulfurized extreme-pressure agents and newly developed friction modifiers. It is suitable for general processing requiring lubricity such as tapping and automatic lathing. **RELIACUT DM20** can be used for a wide range of materials from nonferrous metals such as copper materials to carbon steel and alloy steel. **RELIACUT DM20** corresponds to JIS K 2241 Type N3, No.8.

### ●Special Features

#### 1. Excellent Cutting and Grinding Performance

Because **RELIACUT DM20** is blended with highly refined base oils, inactive sulfurized extreme-pressure agents and special friction modifiers, it provides excellent machining performance in general cutting and grinding.

#### 2. Excellent Anti-mist Performance

**RELIACUT DM20** contains special mist prevention agents that reduce the amount of oil mist formed during machining. The result is an improved working environment.

#### 3. Low Odor

Since the additives of **RELIACUT DM20** are low odor, the work environment is improved.

#### 4. Visible Cutting Position

**RELIACUT DM20** also contributes to make a readily visible cutting position since it is light-colored and decreasing oil mist.

#### 5. High Flash Point

**RELIACUT DM20** uses a high-performance, high flash point base oil and it has a high flash point compared with general viscosity products of the same viscosity grade, which can contribute to the holding quantity.

#### 6. Gentle for skin roughness

Because highly refined base oil of the proper viscosity is used, **RELIACUT DM20** may prevent skin roughness.

### ●Applications

Suited for automatic lathing and tapping of non-ferrous metals and steel materials including stainless steel

### ●Containers

200-liter drums and 20-liter cans

### ●Typical Properties of RELIACUT DM20

Appearance		light brown
Color(ASTM)		L3.0
Density(15°C)	g/cm <sup>3</sup>	0.843
Kinematic viscosity(40°C)	mm <sup>2</sup> /s	20
Flash point(COC)	°C	220
Pour point	°C	-22.5
Acid number	mgKOH/g	0.3
Copper corrosion(100°C, 1h)		1
Fatty content	mass%	11
Sulfur content	mass%	1.2

Note: The typical properties may be changed without notice. (February 2017)



## 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>	<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>