

RELIACUT AH10

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

RELIACUT AH10 is a chlorine-free anti-mist type cutting fluid blended with new active sulfurized extreme-pressure agents combined with new friction modifiers. **RELIACUT AH10**, which contains far higher levels of active sulfurized extreme-pressure agents than **RELIACUT AM10**, is the ideal oil for cutting of difficult-to-cut steel materials and is prepared for heavy cutting under severe conditions. **RELIACUT AH10** corresponds to JIS K 2241 Type N4, No.7.

● Special Features

1. Excellent Cutting and Grinding Performance

Because **RELIACUT AH10** is blended with highly refined base oils, new special active sulfurized extreme-pressure agents and friction modifiers, it provides improved finished surface precision and longer tool life in the general machining and grinding processing.

2. Excellent Anti-mist Performance

RELIACUT AH10 contains special mist inhibitor that suppresses oil mist generated during machining, thus can improve working environment.

3. Low odor

Since the additives of **RELIACUT AH10** are low odor, the work environment is improved.

4. Visualization of the Machining Point

RELIACUT AH10 enables users to observe the machining point easily because of the light color and reduced floating mist.

5. Economical

Due to its low viscosity, **RELIACUT AH10** is superior in economy because it can reduce oil amount which is lost by adhering to the workpieces and cutting powder.

● Applications

Lathe turning, drilling, reaming, boring, threading, deep hole processing (BTA, gun drill) and machining center processing of difficult-to-cut materials such as high-alloy steel, hardened steel, and stainless steel

Gear shaper/gear shaving process of general steel materials

● Containers

200-liter drum and 20-liter can

● Typical Properties of RELIACUT AH10

Appearance		Yellow
Color (ASTM)		L2.0
Density (15°C)	g/cm ³	0.868
Kinematic viscosity (40°C)	mm ² /s	10.3
Flash point (COC)	°C	162
Pour point	°C	-17.5
Acid number	mgKOH/g	1.76
Copper strip corrosion (100°C, 1h)		4
Fatty oil content	mass%	5
Sulfur content	mass%	3.01

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



Handling Precautions

▼ Follow these precautions when handling this product.

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