

RELIACUT AS Series

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

RELIACUT AS series is a chlorine-free anti-mist type cutting fluid blended with properly-selected active sulfurized extreme-pressure agents combined with new friction modifiers. **RELIACUT AS series** is an oil agent that is well-balanced between processability, cooling performance and permeability (cleanliness), and is suitable for general machining using machining centers and lathes. It is suitable for processing various steel materials such as carbon steel and alloy steel. **RELIACUT AS5** corresponds to JIS K 2241 Type N4, No.5. **RELIACUT AS10** and **RELIACUT AS30** correspond to JIS K 2241 Type N4, No.7.

● Special Features

1. Excellent cutting and grinding performances

RELIACUT AS Series exhibits excellent machining performance in cutting and grinding processing where machinability is required, because it contains new special active sulfur type extreme pressure agents and friction modifiers in highly refined base oil.

2. Excellent Anti-mist Performance

RELIACUT AS Series 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 AS Series** are low odor, the work environment is improved.

4. Contribution to the viewing of the processing point

RELIACUT AS Series enables users to observe the processing point easily because of the light color and reduced floating mist.

● Applications

RELIACUT AS5

Cutting processing (such as fine hole drilling) and honing processing that require permeability to common steel materials

RELIACUT AS10

General-purpose cutting such as lathe, drill and milling, and machining center processing for general steel materials

RELIACUT AS30

General-purpose cutting such as lathe and milling, and machining center processing for general steel materials

● Containers

200-liter drums and 20-liter cans

● Typical Properties of RELIACUT AS Series

		AS 5	AS10	AS30
Appearance		Light brown, Liquid	Yellow, Liquid	Yellow, Liquid
Color(ASTM)		L1.5	L2.5	L1.5
Density		0.832	0.862	0.882
Kinematic viscosity(40°C)	mm ² /s	4.65	11.9	32.0
Kinematic viscosity(100°C)	mm ² /s	1.69	3.08	5.49
Flash point(COC)	°C	138	174	214
Pour point	°C	-25	-15	-15
Acid number	mgKOH/g	0.32	0.30	0.31
Copper corrosion(100°C, 1h)		4	4	4
Fatty content	mass%	4	4	5
Sulfur content	mass%	0.93	1.13	126

Note: The typical properties may be changed without notice.(July 2016)



Handling Precautions

▼ Follow these precautions when handling this product.

RELIACUT AS5, RELIACUT AS10

Composition :	Base Oil, Additives
Precautionary pictograms:	
Signal word:	Danger
Hazard Statement:	May be fatal if swallowed and enters airways
Precautionary Statements:	<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 or doctor/physician. • 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. • 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.

RELIACUT AS30

Composition :	Base Oil, Additives
Precautionary pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Not applicable
Precautionary Statements:	<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.
Prevention	
Response	<ul style="list-style-type: none"> • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. • 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.
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.
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.