

RELIACUT DY Series

Inactive Sulfur Type, Non-chlorinated Anti-mist Cutting Fluid

RELIACUT DY Series are chlorine-free anti-mist type cutting fluid blended with the new unique inactive sulfurized extreme-pressure agents and newly developed friction modifiers. **RELIACUT DY Series**, which provide excellent cutting performance and lubricating performance, prevent “seizure” on guide bush during automatic lathe machining. **RELIACUT DY Series** are the ideal oils for many metalworking applications of wide-ranging materials.

● Special Features

1. Excellent Cutting and Grinding Performance

Because **RELIACUT DY Series** are blended with highly refined base oils, inactive sulfurized extreme-pressure agents and special friction modifiers, they provide improved finished surface precision and longer tool life in the general machining of various metals.

2. Excellent Anti-mist Performance

RELIACUT DY Series contain special mist inhibitor that suppresses oil mist generated during the machining, thus can improve the working environment.

3. Low odor

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

4. Visualization of the Machining Point

The machining point can be seen easily, because of the reduced floating mist on the machining point.

● Applications

RELIACUT DY 20

Suited for automatic lathe processing (Petermann automatic lathes are also available), turning, drilling and machining center processing of copper material and ferrous materials including stainless steel.

RELIACUT DY 30

Suited for automatic lathe processing (Petermann automatic lathes are also available) and tapping of copper material and ferrous materials including stainless steel.

Suited for screw rolling and broaching of carbon steel and alloy steel

● Containers

200-liter drums and 20-liter cans

● Typical Properties of RELIACUT DY Series

		DY 20	DY 30
Appearance		Light brown, Liquid	Light brown, Liquid
Color(ASTM)		L3.0	L3.0
Density	g/cm ³	0.895	0.912
Kinematic viscosity (40°C)	mm ² /s	17.9	31.4
Flash point (COC)	°C	168	202
Pour point	°C	-20.0	-12.5
Acid number	mgKOH/g	2.25	1.92
Copper strip corrosion (100°C, 1h)		1	1
Fatty oil content	mass%	24	24
Sulfur content	mass%	3.52	3.26

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



Handling Precautions

▼ Follow these precautions when handling this product.

RELIACUT DY 20

Composition :	Base Oil(s), Additives
Hazard pictograms:	
Signal word:	Danger
Hazard Statement:	Causes serious eye irritation May be fatal if swallowed and enters airways Harmful to aquatic life Harmful to aquatic life with long lasting effects
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.• Avoid release to the environment.• 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.

RELIACUT DY 30

Composition :	Base Oil(s), Additives
Hazard statement:	
Signal word:	Warning
Hazard Statement:	Causes serious eye irritation
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/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.
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.