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IND-6096-2007E

RELIACUT DE, DE-P Series

Chlorine-free anti-mist cutting fluid with high flash point

RELIACUT DE, DE-P Series are chlorine-free anti-mist type cutting fluids blended with properly-selected inactive sulfurized extreme-pressure agents and friction modifiers. Since special synthetic oils are used as base oils, **RELIACUT DE, DE-P Series** feature superior processing performance, high flash point and low viscosity.

RELIACUT DE, DE-P Series are suitable for general lathing and processing, gear cutting and other demanding operations of non-ferrous metals and steel materials such as carbon steel and alloy steel.

Special Features

1. Excellent Cutting and Grinding Performance

Since **RELIACUT DE, DE-P Series** are blended with synthetic oils which have superior oiliness effect, inactive sulfurized extreme-pressure agents and special friction modifiers, they provide improved finished surface roughness and longer tool life in the general machining of ferric metals.

2. Excellent Lubricity

RELIACUT DE, DE-P Series are blended with special sulfurized extreme-pressure agents and they feature excellent load carrying capacity.

3. High Viscosity Index and Low Pour Point

Because of the use of special synthetic oils as base oils, **RELIACUT DE, DE-P Series** have high viscosity index and low pour point. Therefore, they can be used in a wide range of temperatures.

4. Excellent Oxidation Stability

RELIACUT DE Series use synthetic oils which are superior in chemical stability. **RELIACUT DE Series** can be used for a longer term than vegetable oil-based cutting oils.

Applications

RELIACUT DE 10, RELIACUT DE-P 15

*Suited for drlling, reaming, threading, deep hole drilling and various processing at machining center of non-ferrous metals and steel materials such as carbon steel and alloy steel

RELIACUT DE-P 20

*Suited for drlling, reaming, threading, deep hole drilling and various processing such as machining center, lathe, automatic plate processing of non-ferrous metals and steel materials such as carbon steel and alloy steel

RELIACUT DE-P 25

* Suited for general lathing and processing, gear cutting and automatic lathe processing of non-ferrous metals and steel materials such as carbon steel and alloy steel

Containers

200-liter drums and 20-liter cans

● Typical Properties of RELIACUT DE, DE-P Series

		DE 10	DE-P 15	DE-P 20	DE-P 25
Appearance		Light yellow,	Light yellow,	Light yellow,	Light yellow,
Appearance		Liquid	Liquid	Liquid	Liquid
Color(ASTM)		L1.0	L1.0	L1.5	L1.5
Density		0.865	0.953	0.893	0.904
Kinematic viscosity(40°C)	mm^2/s	10.0	16.8	19.7	24.5
Kinematic viscosity(100°C)	mm^2/s	2.95	4.01	5.49	5.79
Viscosity index		160	141	244	193
Flash point(COC)	°C	230	256	256	256
Pour point	°C	-25	-17.5	-27.5	-25
Acid number	mgKOH/g	0.15	0.07	0.31	0.13
Copper corrosion(100°C, 1h)		1	1	1	1
Fatty content	mass%	>70	>70	>70	>70
Sulfur content	mass%	0.31	0.51	0.50	0.50

Note: The typical properties may be changed without notice. (March 2020)



Handling **Precautions**

lacksquare Follow these precautions when handling this product.

RELIACUT DE 10

Composition:	Base Oil(s), Additives	
Precautionary pictograms:		
Signal word:	Danger	
Hazard Statement:	May be fatal if swallowed and enters airways	
	Harmful to aquatic life	
	Harmful to aquatic life with long lasting effects	
Precautionary Statements:	Do not handle until all safety precautions have been read and understood.	
Prevention	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	• 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	• 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	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 DE-P 15

Composition:	Base Oil, Additives
Precautionary pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Harmful to aquatic life
Precautionary Statements:	• Do not handle until all safety precautions have been read and understood.
Prevention	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	• 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.
	Avoid release to the environment.
Storage	• 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	• 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 DE-P 20

Composition:	Base Oil, Additives	
Precautionary pictograms:	Not applicable	
Signal word:	Not applicable	
Hazard Statement:	Not applicable	
Precautionary Statements:	• Do not handle until all safety precautions have been read and understood.	
Prevention	• 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	• 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	• 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	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 DE-P 25

Composition:	Base Oil, Additives	
Precautionary pictograms:		
Signal word:	Warning	
Hazard Statement:	Suspected of damaging fertility or the unborn child	
	Harmful to aquatic life	
	Harmful to aquatic life with long lasting effects	
Precautionary Statements:	• Do not handle until all safety precautions have been read and understood.	
Prevention	• 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.	
	Obtain special instructions before use.	
	• Wash hands thoroughly after handling.	
	• Do not eat, drink or smoke when using this product.	
Response	• 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.	
	IF exposed or concerned: Get medical advice/attention.	
	Avoid release to the environment.	
Storage	• 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	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.	