

RELIACUT DM10

Chlorine-free Anti-mist Water-insoluble Cutting Oil
(Inactive sulfurized extreme-pressure agents type)

RELIACUT DM10 is a chlorine-free anti-mist water-insoluble cutting oil blended with the new unique inactive sulfurized extreme-pressure agents and friction modifiers. The machining performance of **RELIACUT DM10** has been improved, since it is formulated with an increased amount of fatty oil content and sulfur content than **RELIACUT DS10**. **RELIACUT DM10** is a general-purpose product that is well balanced in machining performance, cooling performance and permeability (cleanliness), making it suitable for general processing using a machining center aimed at high efficiency. **RELIACUT DM10** can be applied for machining of a wide range of materials, from nonferrous metals such as copper to carbon steel and alloy steel. **RELIACUT DM10** corresponds to JIS K 2241 Type N3, No. 8.

● SPECIAL FEATURES

1. Excellent Cutting and Grinding Performance

Because **RELIACUT DM10** is blended with highly refined low-viscosity base oils, new unique inactive sulfurized extreme-pressure agents and friction modifiers, it exhibits excellent machining performance in general cutting and grinding processes, enabling longer tool life.

2. Excellent Anti-Mist Performance

RELIACUT DM10 contains special mist prevention agents that reduce the amount of oil mist formed during machining. Thus, improved working environment would be obtained.

3. Low Odor

Since the additives of **RELIACUT DM10** are low-odor, the work environment is improved.

4. Visualization of the Machining Point

RELIACUT DM10 enables users to observe the machining point easily because of the reduced floating mist and light oil color.

5. Superior in economy

Due to its low viscosity, **RELIACUT DM10** is superior in economy because it can reduce oil amount which is lost by adhering to the workpieces and cutting powder.

● APPLICATIONS

General cutting processes such as lathe turning, drilling and milling for non-ferrous metals and steel materials including carbon steel and alloy steel

Machining center processing for various material

● CONTAINERS

200-liter drum and 20-liter pail can

● TYPICAL PROPERTIES OF RELIACUT DM10


Appearance			Yellow, Liquid
Color	(ASTM)		L1.5
Density	(15°C)	g/cm ³	0.859
Kinematic viscosity	(40°C)	mm ² /s	10.4
Flash point	(COC)	°C	168
Pour point		°C	-12.5
Acid number		mgKOH/g	1.86
Copper strip corrosion	(100°C, 1h)		1
Fatty oil content		mass%	10
Sulfur content		mass%	1.38

Note: The typical properties may be changed without notice. (October 2024)



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:	<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.