

RELIASOL C-B(N)

High Decay Resistance Solution Type Grinding Fluid

RELIASOL C-B(N) is a solution type grinding fluid with superior decay resistance, high permeability, good detergency and rust prevention characteristics, which is formulated with original antibacterial agent and oiliness agent. Sulfur, phosphorus and chlorine extreme pressure agents are not included in it. **RELIASOL C-B(N)** is a product that takes into consideration the effects on the environment and the human body, does not fall under the PRTR Law, and does not contain chemical substances under the Poisonous and Deleterious Substances Control Law. It is high performance grinding fluid especially for the precision finish grinding and meets to the solution type cutting fluid of JIS K2241 Type A3, No.1.

● Special Features

1. Superior Decay Resistance

RELIASOL C-B(N) can maintain decay resistance and rust prevention characteristics for a long term and extends the life of fluid, because original antibacterial agent is applied.

2. Excellent Grinding Performance

RELIASOL C-B(N) indicates superior performance in the finish grinding of steel materials because it is solution type grinding oil of excellent permeability and detergency. It is also suitable for rough grinding, because the friction coefficient is set higher in order to improve the attachment of the abrasive grain.

3. Superior in Rust Prevention Characteristics

RELIASOL C-B(N) is formulated with high performance anti-rust additive especially for steel materials.

4. Reduction of Dirt around the Machine

RELIASOL C-B(N) can improve the working environment due to its less stickiness of machinery and the work-piece because it is oil-free.

5. Good Anti-foaming Property

RELIASOL C-B (N) has low foaming property and excellent defoaming property.

6. Environment-friendly Fluid

RELIASOL C-B(N) is environmentally friendly product that is not applicable to PRTR law.

7. High Human Safety

RELIASOL C-B(N) is a product that does not contain candidate chemical substances subject to the Poisonous and Deleterious Substances Control Law and takes into consideration the effects on the human body.

● Applications

RELIASOL C-B(N) is suitable for the precise finish grinding of steel materials such carbon steel and the cast iron.

● Dilution Rate During Use

Grinding: 30 to 50 times

End face and angular grinding: 20 to 30 times

● Containers

200-liter drum and 20-liter can

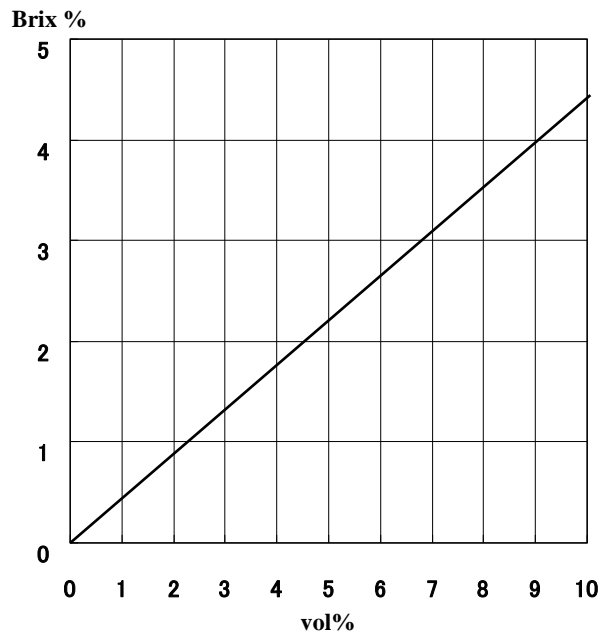
● **Typical Properties of RELIASOL C-B(N)**

Appearance (original fluid)		Light yellow
(diluted fluid)		Clear and colorless
Density (15°C))	g/cm ³	1.028
Surface tension* (25°C)	mN/m	37.3
pH *		10.1
Anticorrosion test(RT,48h)*		No
Steel sheet		discoloration
Foaming* (24°C)	ml	0

*Measured with 30x diluted fluid (based on JIS K 2241).

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


Concentration Conversion Graph for RELIASOL C-B(N)
(Atago Digital Refractometer PR-101)





Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Water-soluble processing oil (Additives)
Hazard pictograms:	
Signal word:	Danger
Hazard Statement:	Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage May cause an allergic skin reaction 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.• Contaminated work clothing should not be allowed out of the workplace.• Do not breathe dust/fume/gas/mist/vapours/spray.• 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 INHALED: Remove person to fresh air and keep comfortable for breathing.• IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].• Wash contaminated clothing before reuse.• If skin irritation or a rash occurs: Get medical advice/attention.• IF IN EYES: Rinse cautiously with water for several minutes.• Remove contact lenses, if present and easy to do. Continue rinsing.• Rinse mouth.• Take off contaminated clothing and wash it before reuse.
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.