

RELIACUT DH 5

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

RELIACUT DH 5 is a chlorine-free anti-mist type cutting fluid blended with the new unique inactive sulfurized extreme-pressure agents and newly developed friction modifiers. The processing performance of **RELIACUT DH 5** has been improved, since it is formulated with an increased amount of fatty and sulfur than **RELIACUT DS 5**. **RELIACUT DH 5** is suitable for processing requiring processing performance together with cooling performance and permeability (cleanliness), and general cutting and grinding processing. **RELIACUT DH 5** is the ideal oil for many metalworking applications of wide range of materials such as non-ferrous metals (copper materials), steel materials and alloy steel. **RELIACUT DH 5** corresponds to JIS K 2241 Type N3, No.6.

● Special Features

1. Excellent Cutting and Grinding Performance

Because **RELIACUT DH 5** is blended with highly refined low viscosity base oils, inactive sulfurized extreme-pressure agents and special friction modifiers, it provides improved finished surface roughness and longer tool life in the general machining of ferric metals.

2. Excellent Anti-mist Performance

RELIACUT DH 5 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 DH 5** are low odor, the work environment is improved.

4. Contribution to the viewing of the processing point

RELIACUT DH 5 can enable to watch the processing point easily because of the reduced floating mist and light oil color.

5. Superior in economy

RELIACUT DH 5 is superior in economy because it can reduce oil consumption which is removed by attaching on the work piece and cutting powder due to

its low viscosity.

● Applications

Cutting work (such as fine hole drilling) and honing machining requiring machining accuracy and permeability of steel materials including nonferrous metals, carbon steel and alloy steel

● Containers

200-liter drums and 20-liter cans

● Typical Properties of RELIACUT DH 5

| | | |
|-----------------------------|--------------------|--------|
| Appearance | | yellow |
| Color(ASTM) | | L2.5 |
| Density | g/cm ³ | 0.854 |
| Kinematic viscosity(40°C) | mm ² /s | 5.17 |
| Kinematic viscosity(100°C) | mm ² /s | 1.89 |
| Flash point(COC) | °C | 122 |
| Pour point | °C | -42.5 |
| Acid number | mgKOH/g | 1.85 |
| Copper corrosion(100°C, 1h) | | 1 |
| Fatty content | mass% | 15 |
| Sulfur content | mass% | 1.62 |

Note: The typical properties may be changed without notice. (February 2012)



Handling Precautions

▼ Follow these precautions when handling this product.

| | |
|---|---|
| Composition : | Base Oil, Additives |
| Precautionary pictograms: |  |
| Signal word: | Danger |
| Hazard Statement: | Combustible liquid Causes serious eye irritation May be fatal if swallowed and enters airways |
| 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.• Keep away from heat/sparks/open flames/hot surfaces – No smoking.• Use explosion-proof electrical/ventilating/lighting/equipment.• Ground/bond container and receiving equipment.• 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.• IF IN EYES: Rinse continuously with water for several minutes.• Remove contact lenses if present and easy to do. Continue rinsing.• Do NOT induce vomiting.• In case of fire: Use suitable extinguishing media for extinction. |
| 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. |