

PRODUCT DATA SHEET

DAPHNE ALPHACOOOL CS

Description

The speed and efficiency of machining tools have been steadily advancing every year, increasing the need for more high performance coolants. The required performance of an efficient and high-speed coolant can be summarized as follows:

1. No foaming even at high pressure injections.
2. No dispersion or vaporization even at high machining temperatures
3. High versatility; can be used with both ferrous and nonferrous materials.

Daphne Alphacool CS is a next generation ultra-versatile emulsion that meets all the above requirements.

Application

This oil can be used as a general-purpose cutting oil for aluminium alloys, carbon steel, alloy steel, and copper by dissolving in water. Specifically, this product can be used for turning, drilling, and end milling. In addition, this product does not contain chlorine nor boron, making it environmentally friendly as well as worker-friendly.

Characteristics

1. The unique base materials forms a thick and dense lubricating film on the processed surface, leading to high lubricity and excellent workability, while also extending the tool life and improving the accuracy of the finished testpiece.
2. By using Idemitsu's unique heat resistant technology, we strengthen the interaction between surfactant particles, creating a thermally stable and non-volatile coolant, which suppresses the occurrence of mist and fume.
3. It has an anti-foaming performance that exceeds conventional emulsion oils, thereby preventing overflow of coolants.
4. With good anti-bacterial performance, the service life of coolants can be prolonged, also reducing waste.
5. By adopting materials that are resistant to degradation, this coolant possesses excellent cleaning ability and prevents stains around the machinery.
6. By adopting unique surfactants, it is difficult for emulsion break to occur. Even when the machinery is paused for extended periods of time, phase separation will not occur, thereby preventing the breakage of tools during machine startup.
7. Since the pH value can be maintained across varying concentrations, rusting of work materials and machine tools can be suppressed.
8. Due to its exceptional self-emulsifying property, it can easily be emulsified even in tanks with less stirring power regardless of water temperature or hardness.
9. This product does not contain chlorine and boron.

Packing

210 L drum

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Specifications

Test Item		CS Stock Solution	CS(10%)	CS(5%)
Density	@15°C (g/cm)	0.9100	-	-
Colour	ASTM D 1500	L0,5	-	-
Flash Point	@C.O.C (°C)	None (non-dangerous goods)	-	-
pH	-	-	9.19	9.16
Foaming	Cylinder Shaking Method	-	7-0	6-0
Anti-rust (DIN test)	@Room Temperature*2h	-	0 (Pass)	0 (Pass)

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