



# Daphne Alphacool EW

## High Performance Water Soluble Cutting Oil

### Description

Daphne Alpha Cool EW is formulated with special Idemitsu-developed surfactant, emulsion-destruction resistant additives and synthetic base oil. This combination of superior additives and base not only results in superior cutting performance, it also provides extended cutting fluid life due to its strong resistance to fluid deterioration and bacteria growth.

### Application

Water-soluble cutting oil recommended for aluminum, carbon steel and alloy steel. It is especially recommended for tapping and reaming of aluminum alloys. Furthermore, because it is non-chlorine type, there is no possibility of generating dioxin and corrosive chlorine gas during the processing of waste fluid.

### Characteristics

1. **Excellent Cutting Performance** - High lubricity synthetic base provides excellent cutting performance, extending cutting tool life span and generating accurate surface finishing.
2. **Excellent Inhibition Of Bacteria Growth** - Long fluid service life due to excellent inhibition of bacteria growth, thus reducing cost and waste disposal.
3. **Excellent Cleansing Properties** - Synthetic base has excellent resistance to deterioration and cleansing properties that keep cutting machine squeaky clean.
4. **Prevention Of Emulsion Separation & Destruction** - Idemitsu specially developed surfactant prevents emulsion separation and destruction and these excellent properties prevent tooling breakage after a period of non-operation of cutting machine.
5. **Prevention Of Rust** - Excellent emulsion pH stability prevents rust on machines and parts.
6. **Emulsifies Easily** - Emulsifies easily even if water has varying hardness or temperature and there is little agitation in the tank.
7. **PRTR Compliance** - It does not contain any non-compliance and toxic substances.

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## Lubricant Product Information



### Usage

For dilution adjustment, always mix the concentrate with water. The mixing ratio is as follow: 2% (50 times) ~ 10% (10 times). Please do not exceed the recommended range unless necessary.

### Packing

20L pail, 200L drum

### Typical Specifications

### Daphne Alphacool EW

	<b>ASTM METHOD</b>	<b>Original Fluid</b>	<b>20 Times</b>	<b>50 Times</b>
Colour	D-1500	L1.0	-	-
Density 15 °C g/cm <sup>3</sup>	D-4052	0.9485	-	-
Chlorine (wt%)	-	Not added	-	-
Boron (wt%)	-	Not added	-	-
Phosphorus (wt%)	-	No added	-	-
Flash Point @COC (°C)	D-92	(Non-dangerous)	-	-
pH	-	-	9.54	9.50
Rust Preventive Performance (DIN Method) @Room Temp x 2Hr	-	-	(0) Pass	(0) Pass
Foaming	-	-	5-0	5-0

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