IDEMITSU

Technologically Advanced Lubricants from Japan

Products / Industrial /

Lubricant Product Information

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 aluminium, carbon steel and alloy steel. It is especially recommended for tapping and reaming of aluminium 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.

Packing

20L pail, 200L drum

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Typical Specifications

	ASTM METHOD	ORIGINAL FLUID	30 Times	50 Times
Color	D-1500	L2.0	-	-
Density 15 °C g/cm^3	D-4052	0.965	-	-
Total Acid Number (mgKOH/g)	D-664	23.2	-	-
Total Base Number (mgKOH/g)	D-2896	87.3	-	-
Viscosity, cST @ 40 °C	D-445	80.2	-	-
Cholorine (wt%)	-	-	-	-
Flash Point, (COC) °C	D-92	(Non- Dangerous)	-	-
Boron (wt%)	-	<5	-	-
Phosphorus (wt%)	-	<5	-	-
pH	-	-	9.89	9.78
Rust Preventive ness (DIN 25°Cx2Hr)	-	-	Pass	Pass
Foaming	-	-	5-0	3-0