



## T1033 Water-Soluble Semi Synthetic MWF Metal Processing Fluid

### **Product Introduction:**

Semi synthetic cutting fluid is a kind of water-soluble cutting fluid which contains both mineral oil and chemical synthetic base oil. Also called Microemulsion Cutting fluid. Its concentrate consists of a small amount of mineral oil (5% - 30%), oily agent, extreme pressure agent, antirust agent, surfactant and preservative. The diameter of the diluent oil drop is less than 1  $\mu$  m, and the diluent is transparent or translucent. It has good cooling, lubrication and antirust properties. It has the advantages of emulsion and synthetic cutting fluid, and makes up for each other's shortcomings. It is the trend of cutting fluid development.

T1033 aluminium alloy cutting fluid is a kind of biological stable semi synthetic cutting fluid specially developed for aluminium processing. It doesn't contain chlorine, phenols and nitrates., it is a formula contains low oil, will have good processing performance in hard water and soft water.

### **Application:**

Suitable material: Suitable for carbon steel, copper, aluminium and plastic processing, not recommended to process aluminium alloy of silicon content more than 26%.

Processing method : Suitable for various processing methods, such as turning, milling, drilling, surface grinding, ect. This product can be widely used for sole machine and central cooling system.

### **Features:**

- ★ Biological stable formula, long life.
- ★ Low foam, good compatibility with hard water.
- ★ Excellent corrosion inhibit performance, it contains special additive, to protect copper not change color.
- ★ Good lubricity performance, can reduce coolant spring out amount, meanwhile keep tools and parts clean.
- ★ Excellent washing and cooling performance.
- ★ Good rate of performance/cost.
- ★ Friendly to operator and environment, low odor.
- ★ Not destroy paint and is compatible with machine tool seals that are commonly used.

**Note:** For excellent antibacterial ability, the recommended used concentration is not less than 4%;



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Typical Data:

Item	Test Method	Unit	Typical Data
Concentration Fluid			
Appearance	BAM 300	-	Transparent light yellow liquid
Density(20°C)	IP365	g/ml	1.0
5% Dilution Solution			
Appearance	BAM 189	-	Translucent milk white
PH value	BS1647	-	7.8
Antirust: Steel Aluminium	IP287 -	- -	0% No rust spot
Foam Performance	IP312	s	15
Refractive meter reading	-	-	3.6

**Note:** Above are typical data, not represent specifications. If in need, MSDS is available, you can obtain information about storage, safety operation and handling. The data above is as accurate as possible, but may change based on future formula change.