



Water Based Semi Synthetic Metal Working Fluid Emulsion T3083

■Product Introduction

T3083 is a semi synthetic cutting fluid with low oil content and long service life, which is specially developed and designed for the processing of ferrous metals, aluminum and other non-ferrous metals. Free of, chlorine, phenols and nitrite. It contains special anti hardening agent, which can easily deal with the high hard water quality environment in different regions.

Application:

Suitable material:

It is applicable to the processing of ferrous metals (cast iron, carbon steel, stainless steel, etc.) and non-ferrous metals and alloys such as aluminum and copper.

Processing method:

Suitable for various processing methods, such as grinding, turning, drilling, tapping, ect.

Features:

- ★ Biological stable type, high efficiency sterilization system with long life.
- ★ It contains special additives and has strong anti-corrosion performance. It does not change color when processing non-ferrous metals such as aluminum and copper
- ★ Good wettability can reduce the amount of coolant carried out and keep the tools and workpieces clean at the same time
- ★ Excellent flushing and cooling performance, effectively improve the processing quality of workpieces
- ★ Excellent lubrication performance, can cope with partial tapping, tapping and medium load processing, and effectively prolong the service life of tools
- ★ Environmentally friendly formula, low odor, no odor, no damage to the operator and the environment
- ★ It has good anti rust performance of the machine, does not damage the paint, and is compatible with the commonly used machine tool seals

Recommended used concentration:

| Process Material Process Method | Cast iron | Carbon Steel | Stainless Steel | Aluminium Alloy |
|------------------------------------|-----------|--------------|-----------------|--------------------|
| Turning | 5% | 5% | 5% | 6% |
| Milling | 5% | 5% | 5% | 6% |
| Drilling | 7% | 7% | 8% | 10% |
| Tapping | 7% | 7% | 8% | 10% |
| Grinding | 5% | 5% | 5% | 5% |
| Sawing | 5% | 5% | 5% | 8% |

Note: For excellent antibacterial ability, the recommended used concentration is not less than 5%;

Typical Data



| Item | Test Method | Unit | Typical Data |
|--------------------------|-------------|------|----------------------------|
| Concentration Fluid | | | |
| Appearance | BAM 300 | - | Transparent yellow liquid |
| Density(20° C) | IP365 | g/ml | 0.89 |
| Refractive meter reading | - | - | 46 ± 1 |
| 5% Dilution Solution | | | |
| Appearance | BAM 189 | - | Microemulsion translucency |
| PH value | BS1647 | - | 8.7 |
| Antirust (5): Steel | IP287 | - | 0% |
| Aluminium | - | - | Pass through |
| Copper | - | - | Pass through |
| Foam Performance | IP312 | s | 10 |
| Refractive meter reading | - | - | 3 |

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.