Microemulsion cutting fluid

Performance Overview

Maxtop Microemulsion cutting fluid (MTMCF968) is a highly lubricating and biologically stable water-soluble micro-emulsion cutting fluid, synthesized by the latest blending process. Rapid cooling performance and heat dissipation: Quickly reduce the processing temperature to prevent the workpiece and tool from deforming due to overheating. Enhance stability: Control the fluctuation of processing temperature to improve processing accuracy and quality. Reduce friction and wear: Form a fine lubricating film, lower cutting force, and extend tool life. Improve processing efficiency: Make the cutting process smoother, and increase processing speed and efficiency.

Features

01

Cleaning performance: Reduces the adhesion between chips and powder, keeps the processing environment clean, and improves processing quality.

02

Is suitable for non-ferrous and non-ferrous metals such as aluminum alloy, copper, stainless steel, alloy steel, and mold steel.

03

Cleaning performance: Reduces the adhesion between chips and powder, keeps the processing environment clean, and improves processing quality.

04

Long service life: High stability, not prone to deterioration or odor, reduced replacement frequency, and lower usage costs.

Application Scenario

1: Metal processing operations
Turning, milling and drilling: Provide efficient cooling and lubrication to ensure processing accuracy.
Grinding, reaming and tapping: Prevent tool wear and improve processing quality.
2: Metal materials
Aluminum alloy, iron, stainless steel, alloy steel and die steel provide long-lasting anti-rust protection to extend the service life of workpieces.
3: Industry applications
Automobile and motorcycle manufacturing: Enhance the processing accuracy of engines and reduce the scrap rate.
Electronic component production: Meeting the demands of high-precision processing and enhancing product quality.

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Microemulsion cutting fluid performance

Project			Quality indicators
Concentrates	Appearance		Orange transparent
	Storage stability		No stratification, no precipitation
5% dilution	Appearance		Transparent and translucent
	pH		8.0~10.0
	Emulsion stability	soap	none
		Oil	none
	Rust resistance test (35℃±2℃)	Single chip, 24h	qualified
		Lamination, 8h	qualified
		Iron filings, 2h	qualified
	Corrosion test b(55 ℃±2 ℃),h	Steel sheet	qualified
		Copper Sheet	qualified
		Aluminum sheet	qualified
	Defoaming property, mL/10min not more than		2
	Extreme pressure performance (four-ball method)		
	Maximum no-seizure load (PB), N not less than		500
	Tapping efficiency, %		Report
	Antimicrobial		pass
	Paint adaptability		pass
	Water quality adaptability, ug/mL not more than		500
	Toxicity test		pass

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