Synthetic cutting fluid

Performance Overview

Maxtop synthetic cutting fluid (MTSCF) is an industrial liquid used in metal cutting, turning and grinding processes to cool and lubricate tools and workpieces. It features excellent cooling performance, lubrication performance, rust prevention performance and cleaning performance. It is applicable to the processing techniques of various metal materials (such as steel, cast iron, aluminum, copper alloys, etc.), and can maintain stable performance under high load and high temperature conditions, significantly improving processing efficiency, extending tool life, and ensuring the surface quality of workpieces at the same time.

Features

01

Provide long-term anti-rust protection for machine tools and processed parts

02

With good visibility: especially suitable for use on CNC machine tools, machining centers and other modern processing equipment.

03

Environmentally friendly formula: does not contain chlorine, triazine, secondary amines, aromatic hydrocarbons, sodium nitrite and other

04

Control of cutting fluid deterioration and odor: It has a very long service life.

05

Low foam: can be used in high pressure systems and operating conditions requiring high air release, suitable for soft and hard water.

06

Chip settling: Provides rapid settling of chips and cutting fragments, keeps the system clean and easily cleans and removes pollutants.

Application Scenario

It is suitable for cutting and grinding of various metals (ferrous metals, copper, etc.) on various CNC machine tools and high-precision modular machine tools.

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Synthetic cutting fluid performance indicators

Project			Quality indicators
Concentrates	Appearance		White or light yellow
	Storage stability		No stratification, no precipitation
5%dilution	Appearance		Transparent and translucent
	pH		8~10
	Corrosion test (55±2℃ full immersion), 24h	Steel sheet	qualified
		Copper Sheet	qualified
		Aluminum sheet	qualified
5%dilution	Defoaming property, mm/10min not more than		2
	Extreme pressure performance (four-ball method) Maximum no-seizure load PB value , N not less than		500