Wire-cut emulsified oil

Performance Overview

Maxtop Cutting emulsified oil is a highly efficient working fluid specially designed for wire electrical discharge machining. It is composed of refined mineral oil, compound emulsifiers and anti-rust additives. When it comes into contact with water, it forms a uniform emulsion, which has insulation, cooling and chip removal capabilities. It can stabilize the discharge energy, improve the cutting efficiency and surface accuracy. It is suitable for the processing of conductive materials such as die steel and hard alloy on fast wire cutting/medium wire cutting machine tools. It has the property of resisting electrolytic corrosion, protecting the workpiece and molybdenum wire, and extending the service life of the equipment.

Features

01

It has the functions of lubrication, cooling, cleaning and rust prevention, ensuring processing accuracy and extending the service life of the equipment.

02

It has strong ionization elimination performance, effectively extinguish arcs and maintain the stability of current and voltage, reducing the risk of wire breakage.

03

It quickly forms a uniform emulsion upon contact with water and is not prone to stratification or deterioration during long-term storage.

04

Non-toxic and odorless, free of harmful substances such as nitrite, and in compliance with industrial hygiene standards.

Application Scenario

1:ast/mid-speed EDM fluid: Cools, stabilizes current, removes debris, boosts efficiency & precision
2:Thick/high-precision cutting: Stable emulsion keeps clean, reduces streaks, enhances finish
3:Lathe/mill/drill versatile: Protects stainless/copper/aluminum, reduces wear & deformation
4:Interim rustproof solution: Prevents oxidation, eliminates reprocessing, short-term protection
5:Hard material processing: Sodium-soap cuts friction, extends wire life, 50%+ speed gain

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Performance indicators of wire-cut emulsified oil

Project	Quality indicators
Appearance	Brown uniform liquid
pH value of 5% emulsion	7~8
The stability of 5% emulsion (15-35℃, 3 hours), ml shall not exceed	0.5
Rust prevention of 2% emulsion (iron sheet, single sheet, 15-35℃), h not less than	8

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