

Water-Based Synthetic Coolant E-308

Overview

Water-Based Synthetic Coolant E-308 is a fully synthetic heavy-duty cutting fluid specifically designed for high-precision, high-load metalworking applications. Formulated with extreme pressure anti-wear agents, high-efficiency rust and corrosion inhibitors, wetting dispersants, and specialized synthetic lubricants, this product is suitable for machining processes such as cutting, turning, drilling, and tapping on various metals including carbon steel, stainless steel, alloy steel, and aluminum alloys. It delivers exceptional cooling, lubrication, and rust protection.

Product Features

1. Superior Extreme Pressure Lubrication

--Utilizes specialized synthetic lubricants to significantly reduce cutting resistance, minimize tool wear, and extend tool life.

--Ideal for heavy-duty machining (e.g., deep-hole drilling, carbide cutting), preventing tool chipping and workpiece burning.

2. Excellent Rust & Corrosion Resistance

--Multi-mechanism rust prevention technology effectively protects ferrous metals from rust and non-ferrous metals (e.g., aluminum, copper) from oxidation.

--Safeguards machine tools and workpieces, reducing post-machining corrosion risks.

3. Outstanding Cleanliness

--Wetting dispersants rapidly remove metal chips and oil residues, keeping machine tools and workpiece surfaces clean with minimal deposits.

--Low residue for easy cleaning, reducing maintenance costs.

4. High Stability

--Strong resistance to hard water, maintaining performance over extended periods and prolonging fluid replacement cycles.

--Low-foam design minimizes foam interference during machining.

Technical Specifications

Item	Parameter
Concentrate	45-47%
5% Dilution Appearance	Pale yellow transparent liquid
5% Dilution pH Value	8.0-8.5 (slightly alkaline)
Recommended Dilution Ratio	5% (adjust based on working conditions)
Water Compatibility	Suitable for both soft and hard water

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Application Scope

Compatible Materials

- Ferrous Metals: Carbon steel, stainless steel, alloy steel, cast iron, etc.
- Non-Ferrous Metals: Aluminum alloys, copper alloys, etc.

Compatible Processes

- Cutting operations (turning, milling, planing)
- Drilling (deep-hole drilling, gun drilling)
- Tapping (thread machining)
- Grinding (precision grinding)

Compatible Equipment

- CNC machining centers
- Lathes, milling machines, drilling machines
- Automated production lines

Usage Instructions

1. Dilution & Preparation

- Recommended initial concentration: 5% using municipal tap water (1:19 ratio of concentrate to water)
- For heavy-duty machining, increase concentration to 1:8-10 ratio

2. System Maintenance

- Thoroughly clean machine fluid tank before initial use to prevent contamination
- Regularly monitor pH level (recommended range: 8.0-8.5) and concentration; replenish concentrate or water as needed
- Filtration system recommended to extend service life and reduce impurity accumulation

3. Replacement Cycle

- Typically 3-6 months depending on machining load
- Replace immediately when fluid becomes visibly cloudy or performance deteriorates

Precautions

- Strictly prohibit mixing with other brand cutting fluids to avoid performance compromise
- Store in cool, dry environment protected from direct sunlight; ensure proper sealing after opening
- Wear protective gloves when prolonged skin contact is anticipated
- Regularly remove chips when processing aluminum/magnesium alloys to prevent oxidation reactions

Packaging Specifications

- 18L/drum ● 200L/drum (customizable)