Mobilcut 230

Mobil Industrial , Austria

Aqueous Metal Working Fluid

Product Description

Mobilcut is the trademark for Mobil Industrial lubricants line of high performance water miscible metal removal fluids. Formulated with leading edge base oils, additives, and emulsifiers, the Mobilcut series of non-chlorinated products provides dependable performance in a wide array of metal removal processes. The products are designed to work in a variety of hard and soft water qualities and offer low foam potential and long-term corrosion protection for machine and components. Low maintenance and inherently stable, Mobilcut products are designed for the modern machine shop where long service life, excellent machining performance and health and environmental concerns are important factors for increased productivity. These products are supplied in concentrated form and require mixing with water at the point of use. All Mobilcut products are free of formaldehyde release agents (FAD).

Mobilcut 230 is a high performance semi-synthetic fluid that readily emulsifies in water to form a stable micro-emulsion. The product is designed for a wide range of water qualities and is resistant to foaming, even in high pressure systems. Mobilcut 230 is suitable for a range of applications on both ferrous and non ferrous alloys making it an ideal choice when consolidating metal working fluids. The product offers extended coolant life relative to conventional soluble oils when properly maintained while maintaining a high degree of machining performance.

Features and Benefits

The Mobilcut series of products are designed to help increase the productivity of modern machine shops by providing high performance features

Features	Advantages and Potential Benefits
Form stable emulsions and solutions	Ease of use and maintenance
Long term inherent stability	Increases batch life and reduces unpleasant odors
Low foaming potential	Improved performance even in high pressure systems
Resists formation of sticky residues	Improves machine cleanliness
High degree of corrosion protection	Reduces machine maintenance and rework of materials
Good separability from fines	Improves filterability and surface finish
Wide Range of applicability	Potential to consolidate products and reduce inventories
Compatible with high performance Mobil Vactra Oil No slideway lubricants	Easy separation and removal of tramp oil
Neutral Odor	Enhances the workplace environment

Applications

Mobilcut 230: High performance, semi synthetic cutting fluid (mineral oil content is 40%), primarily recommended for machining steels, easier to machine stainless steels, and cast iron in milling, tuning, sawing, boring, drilling and reaming.

Mobilcut 230 is suitable for mixed with water of hardness up to 60 °dH or less, but optimum range is 10-25 °dH.

Recommended concentrations for typical operations

Low alloy steels - milling, turning: 5-10%

Carbon alloy steels, difficult machining: 5-10%

Aluminum, Aluminium machining: 5-10%

Cylindrical & surface grinding: 5-8%

Properties and Specifications

Property	
Kinematic Viscosity 20 C, mm2/s, ISO 3104	130
Density 15 C, kg/m3, EN ISO 12185	987
pH, 5% in 15 deg dH Water, DIN 51369	9
Appearance, AA.Lab.101	Amber Liquid
Appearance, 5% in 15 deg dH Water, Visual, AA.Lab.101	Translucent, No Precipitation

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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