MOBILCUT 210-NEW

Mobil Industrial , Finland

Aqueous Metal Working Fluid

Product Description

Mobilcut is the trademark for Mobil Industrial lubricants line of high performance water miscible metal removal fluids. ormulated with leading edge base oils, additives, and mulsifiers, 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, 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 210-New is a high quality micro emulsion water miscible metalworking fluid designed to form a translucent emulsion which is suitable for hard and soft water in a range of 5 to 30°dH. Having a relatively low oil content, the product has good detergent, coolant and cutting properties, making it suitable for a light to moderate duty cutting and grinding applications. Mobilcut 210-New's formulation makes it particularly recommended for the machining and grinding of cast iron while helping to maintain machine cleanliness.

Features and Benefits

The Mobilcut series 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 210-New: Machining of ferrous metals in centralized or individual machines. Lower oil content for extra wettability and corrosion protection. Well suited for cast iron machining and grinding. During the machining of copper alloys, the color of the emulsion might turn into green however there will be no staining on work pieces.

Fluid type is micro emulsion. Mineral oil content is typically 20%. Optimal water hardness range is from 5 to 30° dH, in use the emulsion is stable up to 60° dH. Its refractometer factor is 1.5.

Recommended concentrations for typical operations:

Low alloy steels - milling, turning: 5-7%

Cylindrical & Surface grinding: 5-7%

Properties and Specifications

Property	
Appearance, AA.Lab.101	Yellowish, slightly hazy
Appearance, 4.0% in 20 deg dH Water, AA.Lab.101	Transparent
Kinematic Viscosity @ 20 C, mm2/s, ASTM D7042	190
Density 15 C, kg/m3, DIN EN ISO12185	960
pH-Value 4.0% in 20 deg dH Water, DIN 51369	9.9

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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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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