MOBILCUT 320-NEW

Mobil Industrial , Denmark

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, 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 320-New is boron free high quality synthetic water miscible metalworking fluid designed for general grinding operations with steel and cast iron where a high quality surface finish, outstanding cooling and low foaming potential are the primary requirements.

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 320-New: Synthetic (mineral oil-free) grinding fluid, primarily recommended for grinding of steels and cast iron. Not suitable for Tungsten Carbide. Fluid type is a chemical solution. Water hardness range is from 0 to 20 °dH with a possibility to go up to 40°dH in use. Its refractometer factor is 1.4.

Recommended concentrations for typical operations:

Low alloy steels grinding: 5-8%

Carbon alloy steels grinding: 8-10%

Cylindrical & Surface grinding: 5-8%

Properties and Specifications

Property	
Appearance, AA.Lab.101	Liquid, Yellow
Appearance, 5.0% in 20 deg dH Water, AA.Lab.101	Clear and Colorless
Kinematic Viscosity 20 C, mm2/s, DIN EN ISO 3104	70
Density 15 C, kg/m3, DIN EN ISO12185	1085
pH-Value 5.0% in 20 deg dH Water, DIN 51369	9.5

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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