



Mobilcut 100

Mobil Industrial , India

Aqueous Metal Working Fluid

Product Description

Mobilcut is the trademark for ExxonMobil's line of high performance water miscible metal removal fluids. Formulated with leading edge base oils, additive emulsifiers, the Mobilcut series 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 safe 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.

Mobilcut 100 is a chloride free water miscible cutting fluid with excellent solubility. Its highly stable and bio-resistant formulation developed for use as a general purpose cost effective metal working fluid. It can be used on all types of work piece material for general cutting, milling, drilling, tapping, grinding and reaming applications on low to medium tensile steel, cast iron, aluminum and their alloys.

Features and Benefits

Mobilcut 100 is 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
Resistant to biological growth	Helps increase sump life and reduces unpleasant odor
Low foaming potential	Helps improve performance even in high pressure systems
High degree of corrosion protection	Helps reduce machine maintenance and rework of materials
Good separability from fines	Helps improve 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

Applications

Milky soluble metalworking fluid suitable for general cutting, milling, drilling, tapping, sawing, grinding and reaming applications with light to moderate machining on steel, cast iron, aluminium and their alloys. Ideal for water hardness up to 600ppm.

Properties and Specifications

Property	
Appearance (concentrate), -, Visual	Clear Brown Liquid
Density @ 29.5 deg C, g/ml, ASTM D4052	0.927
pH of 5% Emulsion in D.M Water, Number, IHTP-004	9.8
Refractive Index factor @ 5% Emulsion in D.M. Water, Number, IHTP-001	0.96

Property	
Total Alkalinity, % Wt, KOH, IHTP-010	1.1
Corrosion Break Point, %, IP 287	6
Hard water Emulsion stability 5% in 400 ppm, Report, IHTP-012	-
Foam test - Time 15 seconds, Report, IHTP-002	-
Refractive Index factor @ 5% Emulsion in 400 ppm Water, Number, IHTP-001	0.96
Refractive Index @ 20 deg C (Concentrate), Number, ASTM D1218	1.49805

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.as>
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ExxonMobil Services & Technology Private Limited
(CIN: U74900KA2015FTC080245)
Tower A, 5th Floor, Crescent #1, Prestige Shantiniketan Building,
Whitefield Main Road, Bangalore – 560048, Karnataka, India

+918071085300
<http://www.exxonmobil.com>

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