



Mobilcut 250

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, additives, and 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 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.

Mobilcut 250 is a high performance versatile semi synthetic water soluble metalworking fluid. It is designed for a broad range of metals for use in cutting and grinding operations. It forms a fine milky emulsion. The unique additive package of this product makes it a first choice for precision machining and consistent high quality manufacturing. It can be used on Aluminium alloys, Steel alloys and other metals for grinding, turning, drilling, milling, tapping and reaming operations.

Features and Benefits

Mobilcut 250 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 batch 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

Applications

High performance milky semi synthetic metalworking fluid, suitable for moderate to heavy, cutting, milling, drilling, tapping, and reaming applications of Aluminium and Steel alloys. Ideal for water hardness upto 800ppm.

Properties and Specifications

Property	
Appearance (concentrate), -, Visual	Clear pale yellow to Brown liquid
Density @ 29.5 deg C, g/ml, ASTM D4052	1.000
pH of 5% Emulsion in D.M Water, Number, IHTP-004	9.3

Property	
Refractive Index factor @ 5% Emulsion in D.M. Water, Number, IHTP-001	1.2
Total Alkalinity, % Wt, KOH, IHTP-010	7.4
Corrosion Break Point, %, IP 287	3.5
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	1.2
Refractive Index @ 20 deg C (Concentrate), Number, ASTM D1218	1.45539

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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