



Mobilcut Series

Mobil Industrial , Indonesia

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 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 with low to medium tensile steel, cast iron, aluminum and their alloys.

Mobilcut 140 is a high performance long life water soluble metalworking fluid. It produces a very stable emulsion when diluted with water. It provides excellent corrosion inhibition performance even in extreme hard water conditions. It is specially designed for machining and grinding operations on aluminum alloys. It is also suitable for ferrous and non-ferrous alloys for moderate to heavy cutting, milling, drilling, tapping, grinding and reaming applications.

Mobilcut 220 is a long life semi-synthetic water soluble metalworking fluid, suitable for all moderate to heavy machining and grinding operations on all ferrous alloys. It forms a translucent micro-emulsion and has a unique formula with high performance extreme pressure additives, corrosion inhibitor packages and biocides which prevent bacterial & fungal attack and provides long life. It works very well in general machining and specially grinding of cast Iron, grey iron, steel and its alloys where conventional soluble oil may not deliver adequate performance.

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 aluminum alloys, Steel alloys and other metals for grinding, turning, drilling, milling, tapping and reaming operations.

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
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

Mobilcut 100: Milky soluble metalworking fluid suitable for general cutting, milling, drilling, tapping, sawing, grinding and reaming applications with light to medium machining of mild steel, cast iron, aluminum and their alloys. Ideal for water hardness up to 600ppm.

Mobilcut 140: Long life milky soluble metalworking fluid , suitable for all moderate to heavy cutting, milling, drilling, tapping, sawing, grinding and reaming applic with medium to heavy machining of mild steel, cast iron, aluminum and their alloys. Ideal for water hardness up to 1000ppm.

Mobilcut 220: High performance translucent semi synthetic metalworking fluid, suitable for grinding and moderate to heavy cutting, milling, drilling, tapping, and re applications of cast Iron, steel and its alloys. Ideal for water hardness up to 700ppm.

Mobilcut 250: High performance milky semi synthetic metalworking fluid, suitable for moderate to heavy, cutting, milling, drilling, tapping, and reaming applicati aluminum and steel alloys. Ideal for water hardness up to 800ppm.

Properties and Specifications

Property	100	140	250
Appearance (concentrate), -, Visual	Clear Brown Liquid	Clear Brown Liquid	Clear pale yellow to Brown liqu
Corrosion Break Point, %, IP 287	6	5	3.5
Density @ 29.5 deg C, g/ml, ASTM D4052	0.927	0.910	1.000
Refractive Index factor @ 5% Emulsion in D.M. Water, Number, IHTP-001	0.96	0.92	1.2
Total Alkalinity, % Wt, KOH, IHTP-010	1.1	1.5	7.4
pH of 5% Emulsion in D.M Water, Number, IHTP-004	9.8	9.7	9.3

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