# MOBILCUT 100-NEW

Mobil Industrial , Thailand

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 100-New is a conventional milky soluble oil that readily mixes with different waters to form stable emulsions. It shows good pH stability and especially suitable for harder water. Its versatile performance makes it suitable for a general machining of machine steels and copper alloys in light to moderate duty metalworking operations such as milling, turning, sawing, boring, drilling and reaming.mixes with different waters to form stable emulsions. It shows good pH stability and especially suitable for harder water. Its versatile performance makes it suitable for a general machining of machine steels and copper alloys in light to moderate duty metalworking operations such as milling, turning, sawing, boring, drilling and reaming.

## 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 100-New: General machining of easy to machine steels and copper alloys in light to moderate duty machining operations such as milling, turning, sawing, boring, drilling and reaming. Fluid type is milky emulsion. Mineral oil content is typically 70%. Optimal water hardness range is from 10 to 25 °dH and can go up to 60°dH in use. Its refractometer factor is 1.0

Recommended concentrations for typical operations:

Low alloy steels - milling, turning: 7-12%

Carbon alloy steels, difficult machining: 7-12%

Aluminum machining: 7-12%

### Properties and Specifications

| Property | |
|---|---|
| Kinematic Viscosity 20 C, mm2/s, DIN EN ISO 3104 | 120 |
| Density 15 C, kg/m3, DIN EN ISO12185 | 907 |
| pH-Value 5.0% in 20 deg dH Water, DIN 51369 | 9 |
| Appearance, AA.Lab.101 | Liquid Brownish |
| Appearance, 5.0% in 20 deg dH Water, AA.Lab.101 | Milky |

### 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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