



Mobilcut™ 100
Mobil Industrial , 中国
Aqueous Metal Working Fluid

Product Description

Mobilcut is the trademark for Mobil Industrial lubricants line of high performance water miscible metal removal fluids. Mobilcut 100 is a non-chlorinated product providing dependable performance in a wide array of metal removal processes. The product is 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 100 can be used in 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 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.

Features and Benefits

| Features | Advantages and Potential Benefits |
|--------------------------------------|--|
| Form stable emulsions and solutions | Ease of use and maintenance |
| Resistant to biological growth | 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 |
| Low Mist | Enhances the workplace environment and safety |

Applications

Mobilcut 100: 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. Water hardness range is from 50 ppm to 500 ppm, and can go up to 900 ppm for the make-up water emulsion in use. Its refractometer factor is 1.1

The recommended concentration depends on the application and the materials to be machined:

Light duty machining: 5 - 8%

Medium duty machining: 8 - 12 %

Properties and Specifications

| Property | |
|---|-------------------------------|
| Kinematic viscosity 20 C (concentrate), mm2/s, DIN EN ISO 3104 | 190 |
| pH (emulsion) (5% in 360 ppm hardness water), -, DIN 51369 | 8.9 |
| Emulsion stability (5% in 360 ppm hardness water), -, AA.Lab.102 | milky emulsion, no separation |
| Foaming behavior (5% in 360 ppm hardness water), sec/ml, AA.Lab.103 | 10/0 |
| Density 15 C (concentrate), kg/m3, DIN 51757 | 892 |
| Appearance (concentrate), -, AA.Lab.101 | yellow, clear, liquid |

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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