



MOBILCUT 210-NEW

Mobil Industrial , Slovakia  
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, 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. Mobilcut products are free of formaldehyde release agents (FAD).

Mobilcut 210-New is a high quality micro emulsion water miscible metalworking fluid designed to form a translucent emulsion which is suitable for hard and soft water in a range of 5 to 30°dH. Having a relatively low oil content, the product has good detergent, coolant and cutting properties, making it suitable for a light to moderate cutting and grinding applications. Mobilcut 210-New's formulation makes it particularly recommended for the machining and grinding of cast iron while helping to maintain machine cleanliness.

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 210-New: Machining of ferrous metals in centralized or individual machines. Lower oil content for extra wettability and corrosion protection. Well suited for iron machining and grinding. During the machining of copper alloys, the color of the emulsion might turn into green however there will be no staining on work piece.

Fluid type is micro emulsion. Mineral oil content is typically 20%. Optimal water hardness range is from 5 to 30° dH, in use the emulsion is stable up to 60° dH. Refractometer factor is 1.5.

Recommended concentrations for typical operations:

- Low alloy steels - milling, turning: 5-7%
- Cylindrical & Surface grinding: 5-7%

Properties and Specifications

| Property  |                          |
|---|--------------------------|
| Appearance, AA.Lab.101                          | Yellowish, slightly hazy |
| Appearance, 4.0% in 20 deg dH Water, AA.Lab.101 | Transparent              |
| Kinematic Viscosity @ 20 C, mm2/s, ASTM D7042   | 190                      |
| Density 15 C, kg/m3, DIN EN ISO12185            | 960                      |
| pH-Value 4.0% in 20 deg dH Water, DIN 51369     | 9.9                      |

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 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](http://www.exxonmobil.com)  
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