



MOBILCUT 320-NEW

Mobil Industrial , Austria  
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 component 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 320-New is boron free high quality synthetic water miscible metalworking fluid designed for general grinding operations with steel and cast iron where quality surface finish, outstanding cooling and low foaming potential are the primary requirements.

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 320-New: Synthetic (mineral oil-free) grinding fluid, primarily recommended for grinding of steels and cast iron. Not suitable for Tungsten Carbide. Fluid is a chemical solution. Water hardness range is from 0 to 20 °dH with a possibility to go up to 40°dH in use. Its refractometer factor is 1.4.

Recommended concentrations for typical operations:

- Low alloy steels grinding: 5-8%
- Carbon alloy steels grinding: 8-10%
- Cylindrical & Surface grinding: 5-8%

Properties and Specifications

| Property |  |
|----------|--|
|----------|--|

| Property   |                     |
|--|---------------------|
| Appearance, AA.Lab.101                           | Liquid, Yellow      |
| Appearance, 5.0% in 20 deg dH Water, AA.Lab.101  | Clear and Colorless |
| Kinematic Viscosity 20 C, mm2/s, DIN EN ISO 3104 | 70                  |
| Density 15 C, kg/m3, DIN EN ISO12185             | 1085                |
| pH-Value 5.0% in 20 deg dH Water, DIN 51369      | 9.5                 |

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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