Mobilcut™ 323

Mobil Industrial , 中国

Aqueous Metal Working Fluids

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 extremely 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. Mobilcut 323 is free of formaldehyde release agents (FAD).

Mobilcut 323 is boron free high quality synthetic water miscible metalworking fluid designed for general grinding operations with steel and cast iron where a high quality surface finish, outstanding cooling and low foaming potential are the primary requirements.

Features and Benefits

The Mobilcut 323 is 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
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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

Applications

Mobilcut 323 is synthetic fluid, primarily recommended for grinding of steels and cast iron. Fluid type is a chemical solution. Water hardness range is from 0 to 500 ppm. Its refractometer factor is 1.9

Recommended concentrations for typical operations:

Low alloy steels grinding: 5-6%

Carbon alloy steels grinding: 6-8%

Cylindrical & Surface grinding: 5-8%

Properties and Specifications

Property	
Refractive Index 20 C (concentrate), -, ASTM D1218	1.409
Kinematic viscosity 20 C (concentrate), mm2/s, DIN EN ISO 3104	7.5
pH (emulsion) (5% in 360 ppm hardness water), -, DIN 51369	9.1
Anti-corrosion properties (emulsion) (5% in 360 ppm hardness water), -, DIN 51360-2	0/0
Emulsion stability (5% in 360 ppm hardness water), -, AA.Lab.102	clear solution, no separation
Density 15 C (concentrate), kg/m3, DIN 51757	1099
Appearance (concentrate), -, AA.Lab.101	Clear Liquid
Refractive index factor (5% in 360 ppm hardness water), %, AA.Lab.105	1.9
Foaming behavior (5% in 360 ppm hardness water), sec/ml, AA.Lab.103	35/0

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

08-2020
ExxonMobil (China) Investment Co. Ltd
17th Floor, Metro Tower
30 Tian Yao Qiao Road
Shanghai 2000030
China

+86 21 24076000
http://www.exxonmobil.com

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