



**Mobilcut 140**  
Mobil Industrial , India  
Aqueous Metal Working Fluid

**Product Description**

Mobilcut is the trademark for ExxonMobil's line of high performance water miscible metal removal fluids. Formulated with leading edge base oils, additive 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 and 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 140 is high performance, environment friendly and longer life water miscible metalworking fluid. It produces a very stable emulsion when diluted with water and provides excellent corrosion inhibition performance even in extreme hard water conditions. It is suitable for all moderate machining and grinding operations on all ferrous and non-ferrous metals. It can be used on low to medium tensile steel, cast iron, aluminium and their alloy materials for general cutting, milling, drilling, tapping, grinding and reaming applications.

**Features and Benefits**

Mobilcut 140 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
Resistant to biological growth	Helps increase batch life and reduces unpleasant odor
Low foaming potential	Helps improve performance even in high pressure systems
High degree of corrosion protection	Helps reduce machine maintenance and rework of materials
Good separability from fines	Helps improve filterability and surface finish
Wide Range of applicability	Potential to consolidate products and reduce inventories

**Applications**

Milky soluble fluid, suitable for all moderate machining and grinding operations on all ferrous and non-ferrous metals. It can be used on low to medium tensile steel, cast iron, aluminium and their alloy materials for general cutting, milling, drilling, tapping, grinding and reaming applications.

**Properties and Specifications**

Property	
Appearance (concentrate), -, Visual	Clear Brown Liquid
Density @ 29.5 deg C, g/ml, ASTM D4052	0.910
pH of 5% Emulsion in D.M Water, Number, IHTP-004	9.7
Refractive Index factor @ 5% Emulsion in D.M. Water, Number, IHTP-001	0.92
Total Alkalinity, % Wt, KOH, IHTP-010	1.5

Property	
Corrosion Break Point, %, IP 287	5
Refractive Index factor @ 5% Emulsion in 400 ppm Water, Number, IHTP-001	0.92
Refractive Index @ 20 deg C ( Concentrate), Number, ASTM D1218	1.49304

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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