Mobilcut 240

Mobil Industrial , Portugal

Aqueous Metal Working Fluid with innovative technology

Product Description

Mobilcut 240 is a premium quality semi synthetic water miscible metalworking fluid. It is based on innovative technology that offers some outstanding advantages including hard water compatibility, machine tool cleanliness and long term stability. Mobilcut 240 is free from added boron and boric acid, hence meeting the latest Health and Safety related trends.
Mobilcut 240 is formulated using high quality mineral oils and a carefully selected blend of emulsifiers. When mixed with water of hardness 60 °dH or less, the concentrate produces stable, translucent emulsions.

Having a relatively low oil content, Mobilcut 240 provides excellent wetting and detergency and superb cooling and cutting properties, making it suitable for light to moderate duty cutting and grinding applications. It also offers low foam potential and long-term corrosion protection for machine and components. It also helps support machine shop productivity by requiring low maintenance and providing a long term stability.

Features and Benefits

Mobilcut 240 is designed to help increase the productivity of modern machine shops by offering high performance features whilst meeting the latest Health and Safety trends.

Features	Advantages and Potential Benefits
Outstanding water hardness acceptance	Problem solver in hard water applications
Superb flushing ability	Clean machines even with problematic workpieces
Forms no residues during operation	Improves machine cleanliness
Easy re-emulsification of dry residues after start-up	Less cleaning effort
Boron free	Will comply future legislation.
Low care and maintenance	Extended batch life and reduction of unpleasant odors
High buffer capacity	Stable pH without additional maintenance
Low foaming potential	Improved performance even in high pressure systems
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 slideway lubricants	Separation and removal of tramp oil
Neutral Odor	Enhances the workplace environment

Applications

Mobilcut 240 is a universal metalworking fluid and is suitable for a range of light to moderate duty cutting and grinding applications on ferrous metals in both centralized or individual machines.

Mobilcut 240's outstanding flushing ability makes it particularly recommended for the machining and grinding of cast iron and while helping to maintain machine cleanliness. It is not suitable for the general machining of aluminium and its alloys.

Operations / Recommended Dilutions

Mobilcut 240 is designed for dilutions between 4% and 10%.

The table below offers approximate dilutions for general applications.

	Cast Iron	Carbon Steel	Alloy Steel	Yellow Metal
Grinding	4,0 % - 6,0 %	5,0 % - 6,0 %	5,0 % - 6,0 %	limited usage
Milling	5,0 % - 7,0 %	6,0 % - 8,0 %	6,0 % - 8,0 %	limited usage
Turning	5,0 % - 7,0 %	6,0 % - 8,0 %	6,0 % - 8,0 %	limited usage
Drilling	6,0 % - 8,0 %	8,0 % - 10,0 %	8,0 % - 10,0 %	limited usage

Typical Properties

Mobilcut 240	
Appearance (Concentrate)	Clear, orange Liquid
Appearance (Emulsion)	Translucent
Emulsion Type	Semi-synthetic
Mineral Oil Content (Concentrate)	20%
Refractometer Correction Factor	1.70 (Brix)
pH @ 5% in DIN 20 Water (Emulsion)	9.1
Density @ 15°C / 59°F (Concentrate)	995 kg/m^3
Kin. Viscosity @ 20°C / 68°F (Concentrate)	110 mm^2/s approx.
Pour Point (Concentrate)	< -10°C
Corrosion Protection: DIN 51360/I @ 4% DIN 51360/II @ 5%	R0/S0 – no corrosion 0/1 – no corrosion
Hard Water Stability @ 5% in 60° dH Water	no oil, no creaming, minimal Calcium soap formation
Salt Water Stability @ 5% plus 0.5% NaCl	Stable, no creaming

Health and Safety

Classified WGK 2 in Germany.
Stable when stored at 10 °C/50 °F to 25 °C/77 °F in unopened container for up to 12 months. Avoid frost where possible.

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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ExxonMobil Lubricants and Specialties Europe division of ExxonMobil Petroleum & Chemical b.v.b.a.
Polderdijkweg
B-2030 Antwerpen, Belgium

http://www.exxonmobil.com

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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