



Mobilcut 240

Mobil Industrial , Switzerland

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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