

# Mobilcut™ Series

Soluble cutting fluids for precision machining



Key benefits



Improved surface finish with exceptional machining performance.



Ease of use and maintenance with stable emulsion and tramp oil separability.



Environmental protection and lower disposal cost with harmful chemical-free formulation.

Precise machining operation calls for a precision cutting fluid. Mobilcut™ Series soluble cutting fluids are formulated with leading edge additives and emulsifiers designed to increase productivity in modern machining operations.

Features:

- Outstanding machining performance
- Stable emulsions and concentration control
- Low foaming potential in all conditions
- High degree of corrosion protection

# Mobilcut™ Series

Mobilcut™ Series aqueous cutting fluids provide the following benefits to help ensure precision machining:



Excellent surface finish



Outstanding corrosion protection



Outstanding concentration control



Eliminate unpleasant odor



Low foam tendency



Safe to use and easy to dispose

Mobilcut™ aqueous cutting fluids are designed to form stable emulsions resulting in excellent surface finish and long sump life.

Unsteady concentration with ordinary cutting fluids

Market general cutting fluids may cause large concentration fluctuations. This results in increased bacterial activity, leading to shorter coolant life and lower quality machined components, thus increasing operating costs.

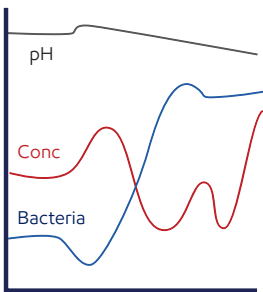


Fig. 1 Unsteady concentration

Steady concentration with Mobilcut™

Mobilcut™ Series is designed for low top-up requirement and minimal concentration fluctuations, which result in lower bacterial growth and longer sump life. This helps in achieving lower cost of operation.

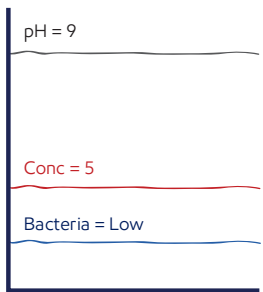


Fig. 2 Steady concentration

# Wide range of lubricant grades

To ensure the right product for every application

## Premium Soluble metalworking fluids

**Mobilcut™ 100:** It is a chlorine free multi-purpose milky soluble metalworking fluid. It has highly stable and bio-resistant formulation. It is suitable for turning, milling, drilling, tapping, sawing, grinding and reaming applications with light to moderate machining of mild steel, cast iron, yellow metals, aluminum and their alloys. It is stable up to emulsion hardness of 400ppm.

| Operations                 | Mild steel | Alloy steel | Cast iron | Alum. alloys | Yellow Metals |
|----------------------------|------------|-------------|-----------|--------------|---------------|
| Milling, Turning           | 5-6%***    | 5-6%***     | 5%**      | 5-6%***      | 5-6%***       |
| Reaming, Tapping, Drilling | 5-7%***    | 6-7%***     | 5%**      | 6-7%***      | 6-7%***       |
| Grinding                   | 5%**       | 5%**        | 5%**      | 6%***        | 6%***         |

## Superior Semi-Synthetic metalworking fluids

**Mobilcut™ 231:** It is a superior performance semi-synthetic water-soluble metalworking fluid, suitable for all grinding and moderate to heavy turning, milling, drilling, tapping, and reaming applications on all ferrous and its alloys. It forms a light blue translucent micro-emulsion. It works very well in individual and central sumps delivering increased sump life, minimal top-up and reduced Total Cost of Ownership (TCO). Ideal for emulsion hardness up to 700ppm.

| Operations                 | Mild steel | Alloy steel | Cast iron | Alum. alloys | Yellow Metals |
|----------------------------|------------|-------------|-----------|--------------|---------------|
| Milling, Turning           | 4-5%*****  | 5-6%*****   | 4-5%***** | 5-6%**       | -             |
| Reaming, Tapping, Drilling | 5-6%*****  | 6-7%*****   | 4-5%***** | 6-7%**       | -             |
| Grinding                   | 4-5%*****  | 4-5%*****   | 4-5%***** | 4-5%**       | -             |

**Mobilcut™ 251:** It is a superior performance versatile semi-synthetic water-soluble metalworking fluid suitable for moderate to heavy, turning, milling, drilling, tapping, reaming and grinding applications of aluminum and steel alloys. It is not suitable for ADC 12 and 6000/7000 series Aluminium. It forms a light blue fine milky emulsion. It works very well in individual and central sumps delivering increased sump life, minimal top-up and reduced Total Cost of Ownership (TCO). Ideal for emulsion hardness up to 700ppm.

| Operations                 | Mild steel | Alloy steel | Cast iron | Alum. alloys | Yellow Metals |
|----------------------------|------------|-------------|-----------|--------------|---------------|
| Milling, Turning           | 4-5%*****  | 5-6%*****   | 4-5%***   | 5-6%*****    | 5-6%**        |
| Reaming, Tapping, Drilling | 5-6%*****  | 6-7%*****   | 4-5%***   | 6-7%*****    | 6-7%**        |
| Grinding                   | 4-5%*****  | 4-5%***     | 4-5%**    | 4-5%*****    | 4-5%**        |

\*\*\*\*\*Best      \*\*\*\*Better      \*\*\*Good      \*\*Use basis consultation      -Not recommended

## Sidestep downtime with doorstep expertise.



**MACHINEXT**  
Lubricant Services



- Extended Lubricant Life
- Enhanced Protection
- Reduced Downtime



Coolant sump cleaner



Tramp oil remover

## Insights as sharp as your cuts.

**Mobil Solcare App**



- Collect Service Reports Instantly
- Get Recommendations On Consumption Trends
- Access Critical Data
- Shift From Reactive To Proactive Maintenance



\* Visit [mobil.co.in/industrial](http://mobil.co.in/industrial) to learn how certain Mobil-branded lubricants may provide benefits to help minimize environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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