



Mobilmet 440 Series

Mobil Industrial, Switzerland

High Performance Oil-Based Cutting Fluids

Product Description

Mobilmet 440 Series fluids are high performance, multi-service, non-corrosive straight cutting fluids. They are designed for moderate to heavy duty cutting operations. They are also suitable for machine tool lubrication and use as hydraulic fluids in specific applications. They are formulated from high quality base oils and chlorine-free additives to provide effective machine performance in a wide variety of moderate to severe operations. They are non-staining to both ferrous and non-ferrous metals during machining. Mobilmet 440 Series fluids are formulated to prevent the formation of oil mist in the vicinity of the machine tool, thus contributing to a safer and more pleasant working environment.

Features and Benefits

Mobilmet 440 Series Fluids are designed for a very wide variety of non-corrosive cutting and machining operations that range from moderate to severe. They provide long service life, improved tool life and lower reject rates. They are multi-purpose cutting oils that are also suitable for machine tool lubrication and use as hydraulic fluids. These features help minimize the effects of cross contamination and reduce the costs associated with unscheduled fluid change-outs or reduced machine and tool performance.

| Features | Advantages and Potential Benefits |
|--|---|
| Multi-service characteristics | Reduced cross-contamination problems |
| | Reduced waste and lower maintenance |
| Non-corrosive / non-staining | Improved quality of finished materials |
| Highly effective machining performance | Longer tool life and reduced downtime |
| | Improved surface finish and fewer rejects |
| | Increased feed rates and machine speeds |
| Effective anti-mist characteristics | Cleaner and safer working environment |

Applications

Mobilmet 440 Series fluids are recommended for a wide range of moderate to severe machining operations on all types of metals. Mobilmet 443 is recommended for machining non-ferrous metals and their alloys, normal to difficult-to-machine steels, including cementation steels, carbon steels and high alloy steels. Mobilmet 446 and Mobilmet 447 are recommended for severe duty gear hobbing, gear cutting and shaving, gear and thread grinding, milling, and broaching operations.

Typical Properties

| Mobilmet 440 Series | 443 | 446 | 447 |
|---|------|------|------|
| Viscosity, ASTM D 445 | | | |
| cSt @ 40° C | 15.3 | 32.6 | 45.9 |
| cSt @ 100° C | 3.8 | 6.0 | 7.4 |
| Viscosity Index, ASTM D 2270 | 145 | 132 | 124 |
| Pour Point, °C, ASTM D 97 | -33 | -24 | -33 |
| Flash Point, °C, ASTM D 92 | 170 | 190 | 220 |
| Specific Gravity @15° C kg/l, ASTM D 4052 | 0.86 | 0.88 | 0.89 |

| | | | |
|---|------------|------------|------------|
| Mobilmet 440 Series | 443 | 446 | 447 |
| Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100° C, max | 2A | 2A | 2A |

Health and Safety

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. Switzerland use: Toxicity class: free BAG T No.: 611500

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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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