



## Mobilmet 447

### High Performance Oil-Based Cutting Fluid

#### Product Description

Mobilmet 447 is a high performance, multi-service, non-corrosive straight cutting fluid. It is designed for heavy duty cutting operations. It is also suitable for machine tool lubrication and use as a hydraulic fluid in specific applications. It is formulated from high quality base oils and chlorine-free additives to provide effective machine performance in severe operations. It is non-staining to both ferrous and non-ferrous metals during machining. Mobilmet 447 is 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 447 is designed for severe non-corrosive cutting and machining operations. It provides long service life, improved tool life and lower reject rates. It is a multi-purpose cutting oil that is also suitable for machine tool lubrication and use as a hydraulic fluid. 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 447 is recommended for severe duty gear hobbing, gear cutting and shaving, gear and thread grinding, milling, and broaching operations.

#### Typical Properties

Mobilmet	447
Viscosity, ASTM D 445	
cSt @ 40° C	45.9
cSt @ 100° C	7.4
Viscosity Index, ASTM D 2270	124
Pour Point, °C, ASTM D 97	-33
Flash Point, °C, ASTM D 92	220
Specific Gravity @15° C kg/l, ASTM D 4052	0.89
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100° C, max	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](http://www.exxonmobil.com)  
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