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# Mobilmet 440 Series

Mobil Industrial, Finland

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 oper. 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 chlorin 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 during machining. Mobilet 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 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 plong 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 These features help minimize the effects of cross contamination and reduce the costs associated with unscheduled fluid change-outs or reduced machine are 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 recommend machining non-ferrous metals and their alloys, normal to difficult-to-machine steels, including cementation steels, carbon steels and high alloy steels. Mobilmet 44 Mobilmet 447 are recommended for severe duty gear hobbing, gear cutting and shaving, gear and thread grinding, milling, and broaching operations.

# **Properties and Specifications**

Property	443	446	447
Grade	ISO 15	ISO 32	ISO 46
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	2A	2A	2A
Density @ 15 C, kg/l, ASTM D4052	0.86	0.88	0.89
Flash Point, Cleveland Open Cup, °C, ASTM D92	170	190	220
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	3.8	6.0	7.4
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	15.3	32.6	45.9
Pour Point, °C, ASTM D97	-33	-24	-33
Viscosity Index, ASTM D2270	145	132	124

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# Health and Safety

 $Health \ and \ Safety \ recommendations \ for \ this \ product \ can \ be \ found \ on \ the \ Material \ Safety \ Data \ Sheet \ (MSDS) \ @ \ http://www.msds.exxonmobil.com/psims/psims.as$ 

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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 to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All promay not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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