



Mobilmet Omega
Mobil Industrial , United States
Oil Based Cutting Fluid

Product Description

Mobilmet Omega is high performance mineral-oil-type active cutting oils incorporating synthesised additive technology. The balanced selection of additives in Mobilmet cutting oil maximises performance over the wide range of pressures and temperatures encountered when machining difficult metals under difficult conditions. This chemically-synthesised, active additive combination also controls buildup on the tool tip, resulting in a better surface finish.

Mobilmet Omega contains the active anti-weld properties that are required for cutting difficult-to-machine metals. It is transparent on the work piece, allowing good visual inspection of machined parts. These oils, however, can discolour the surface of copper alloys. Mobilmet Omega is designed for a wide variety of metal cutting operations, severities and metallurgies. It is also formulated for ease of use and operator convenience. These attributes have resulted in this fluid becoming the product of choice for many machine shops.

Features and Benefits

The Mobilmet brand of cutting fluids has gained a reputation for innovation and outstanding performance over the years. Mobilmet Omega is an important member of this family with its active additive technology. This proprietary formulation approach, developed by our formulation scientists in conjunction with key customers, yields superb performance in a wide range of applications.

Features and potential benefits of Mobilmet Omega product include:

Features	Advantages and Potential Benefits
Very active anti-weld additive technology	High cutting efficiency, better surface finish and closer tolerances for overall improved productivity Reduced chip welding in heavy-duty operations Faster machining at higher speeds and/or feeds Helps increase tool life between regrinds
Multi-purpose capability	Fewer cutting oils in shop and potential for lower inventory costs

Applications

- Mobilmet Omega is an extremely heavy-duty cutting oil for hard-to-machine metals that must be broached, tapped, or threaded.

Typical Properties

	MobilmetOmega
Viscosity, ASTM D 445	
cSt @ 40° C	42.6
cSt @ 100° C	6.8
Viscosity Index, ASTM D 2270	119
Specific Gravity @15° C kg/l, ASTM D 1298	7.46
Active Sulphur, ASTM D 1662, wt-%	1.90

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.

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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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