

Mobilmet XLM Series

High Performance Oil-Based Cutting Fluid

Product Description

Mobilmet XLM 543 and 973 are a new generation of neat cutting fluids. They are low viscosity, high performance, and extreme pressure neat oils, designed for moderate and heavy duty cutting and grinding operations. Mobilmet XLM 543 and 973 are formulated using high quality base oils and select additives to facilitate effective machining performance in a wide variety of operations. They control built-up-edge and protect the tool tip from wear providing long tool life and reduced re-grinding requirements.

Mobilmet XLM Series oils are based on low viscosity, unconventional base oils that are inherently low misting and fuming. The low viscosity also allows better drainage of parts and swarf to make degreasing easier and conserve fluid. They do not contain any added chlorine or zinc allowing lower disposal costs.

Features & Benefits

Mobilmet XLM Series fluids help reduce tool wear and improve tool life and part finish. Their excellent extreme pressure capabilities reduce the maintenance for regrinds and reduce parts rejects.

Features	Advantages and Potential Benefits
Excellent machining performance	Increased production resulting from longer tool life and reduced downtime for tool changes and wheel dressing Improved surface finish and dimensional accuracy
Low viscosity	Better drainage off parts and machine tools Increased penetration at tool/workpiece interface to improve tool life and surface finish
Low misting tendency	Improves work environment and reduces fluid loss
Light, transparent color	Provides clear view of work area

Applications

- Moderate to heavy duty cutting and grinding of carbon and alloy steels
- Mobilmet XLM 543 is suitable for milling, turning and boring of light to medium strength alloy steels and aluminum alloys.
- Mobilmet XLM 973 is suitable for milling, turning and deep hole drilling of medium to hard alloy steels and some tough aluminum alloys
- Both Mobilmet XLM 543 and 973 can be used in individual machine tools and centralized systems.
- Mobilmet XLM 543 can also be used in non-critical hydraulic applications
- Mobilmet XLM 973 contains active sulphur and should not be used for machining copper-based alloys



Typical Properties

Mobilmet	XLM 543	XLM 973
Appearance	Bright clear	Bright clear
Viscosity, ASTM D 445 , cSt @ 40°C	14.3	15
Viscosity Index, ASTM D 2270	165	131
Flash Point, ASTM D 93, °C		189
Copper Strip Corrosion, ASTM D 130, rating	2A	4
4-Ball Weld Load, ASTM D 2783, N		5200
Density @15 °C kg/l, ASTM D 1298		0.840

Health & 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 contact 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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