Mobilmet 760 Series

Oil Based Cutting Fluids

Product Description

Mobilmet 760 Series are extra high performance oil based cutting oils. They are chlorine-free and are intended for severe cutting operations especially on difficult to machine steels. They are corrosive to copper and its alloys. In comparison with other leading premium cutting oils, Mobilmet 760 Series oils have demonstrated superior surface finish, extended tool life and control of built-up edge. Their light colour enables the work area to be seen at all times. Closer tolerances are consistently achieved. The oils 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.

With the benefit of comprehensive development testing using modern machining equipment, plus extensive customer evaluations, Mobilmet 760 Series products, have become the products of choice for many machine shops.

Features & Benefits

The Mobilmet brand of cutting fluids has gained a well-deserved reputation for innovation and outstanding performance over the years. The Mobilmet 760 Series are an important member of this family with their chlorine-free and low-misting additive technology. This formulation approach yields superb performance in a wide range of applications, while providing the environmental and disposal benefit of being chlorine-free.

Additional features and potential benefits of Mobilmet 760 products include:

Features	Advantages and Potential Benefits
Superb machining performance	Increased production resulting from longer tool life and reduced downtime for tool changes
	Improved surface finish, closer tolerances and reduced formation of built-up edge resulting in fewer rejects
Excellent lubricity	Cooler work pieces and increased feed rates possible for reduced operating costs
Broad multi-purpose capability	Suitability for a wide range of severe machining operations on difficult steels
Light transparent colour	Provides a clear view of the tool and work piece
Anti-mist formulation	Improved workplace safety

Applications

Mobilmet 760 Series are recommended for severe cutting operations on normal and difficult to machine steels. Specific applications, by grade, include:

- Mobilmet 762 is particularly suitable for drilling, deep hole drilling (less than 20 mm diameter), threading, tapping, parting-off and automatic lathe operations on small work pieces
- Mobilmet 763 is recommended for deep hole drilling (greater than 20 mm diameter), drilling, tapping, threading, milling, gear shaping, broaching, parting-off and automatic lathe operations
- Mobilmet 766 is used for tapping, threading, milling, gear shaving and shaping, broaching, planing, parting-off and automatic lathe operations

Typical Properties

Mobilmet 760 Series	**762**	**763**	**766**
Viscosity, ASTM D 445			
cSt @ 40ºC	10.3	19.0	34.7
cSt @ 100ºC	2.9	4.2	6.1
Flash Point, ºC, ASTM D 92	160	180	205
Specific Gravity @ 15ºC kg/l, ASTM D 1298	0.87	0.87	0.88

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 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.