

Product Description

Mobilmet EAL 315 is a high quality anti-wear environmentally acceptable cutting fluid designed to rapidly biodegrade if accidentally spilt. It is manufactured from a naturally high viscosity index vegetable base fluid and contains non-toxic additives to improve wear protection, oxidation stability and corrosion resistance.

Benefits

Mobilmet EAL 315 offers the following benefits:

- Provides long service life relative to other vegetable based products
- Excellent multi-metal machining capabilities
- Higher Productivity
- Higher cutting speeds and feeds
- Extended tool life
- No cleaning and disposal costs
- Leaves a dry machine, swarf and workpiece
- Profitable dry swarf recycling
- Clean atmosphere, no fogging, no smells
- Environmentally acceptable, will readily biodegrade if accidentally spilt
- Minimises damage to the ecosystem if inadvertent release occurs

Application

Mobilmet EAL 315 is an environmentally acceptable, high performance cutting fluid designed for use in both machining and metal forming operations. It is suitable for sawing, milling, turning, finishing and high speed machining of a wide range of ferrous and non ferrous metals.

This product should be used in conjunction with a minimal lubrication system, which is based on the carefully directed application of a micro-thin protective film. The accurately adjustable metering pumps of the lubrication system guarantee a minimum and constant flow rate of lubricant under air pressure which is directed to the precise point where it is needed.

Mobilmet EAL 315 is effective in reducing and preventing heat generation and hence ensures optimum machining performance. The use of Mobilmet EAL 315 together with a minimal lubrication system could effectively replace conventional flood coolants. The technology works on the principle of total consumption during the operation. By effectively using the cutting fluid directed precisely at the point where it is needed, it reduces heat generated at the cutting edge, increases lubricity, reduces fluid consumption lost to the atmosphere, dispenses with cleaning and disposal problems and improves conditions at the workplace.

Finally, it is advisable to take precautions to avoid contaminating Mobilmet EAL 315 with petroleum based lubricants as they are only compatible in small proportions (less than 5% contamination).

Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

Typical Characteristics

Mobilmet EAL 315

Viscosity, cSt at 40°C	38.3
Viscosity, cSt at 100°C	8.56
Viscosity Index	214
Pour Point, °C	-33
Flash Point, °C	300
Relative Density g/ml	0.022
Biodegradability EPA 560/6-82-003 (CO ₂ conversion)	<70
Aquatic Toxicity Modified OECD203 (LC50 Trout, ppm)	75,000
German Water Class Hazard Rating	0

Due to continual product research and development, the information contained herein is subject to change without notice.

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