



Mobilcut™ 220

High Performance Semi-Synthetic Cutting Fluid

Product Description

Mobilcut 220 is a high performance, multi-purpose water soluble, semi-synthetic cutting fluid. It is formulated from high quality base oils, emulsifiers and additives to provide effective machining performance in a wide variety of operations. The higher oil content emulsion gives excellent cutting performance and outstanding machine tool lubrication and corrosion protection. Mobilcut 220 is designed for a range of light to moderate duty cutting operations on ferrous and non-ferrous metals.

Mobilcut 220 is readily emulsifiable in water and forms stable micro-emulsions. This product is engineered to be suitable for a wide range of water qualities and is resistant to foaming, even in high pressure systems. Mobilcut 220 emulsions help provide extended coolant life relative to conventional soluble oils, with proper cutting fluid maintenance.

Mobilcut 220 is nitrite and chlorine free.

Features and Benefits

Mobilcut 220 has gained a well-deserved reputation for outstanding performance over the years, providing multi-functional machining and lubrication capabilities. Features and potential benefits of Mobilcut 220 include:

Features	Advantages and Potential Benefits
Excellent machining capabilities	Helps increase production resulting from longer tool life and reduce downtime for tool changes and wheel dressing.
	Improved surface finish and dimensional accuracy resulting in fewer rejects and better quality finished parts.
	Helps increase productivity with potential increases in feed rates and machine speeds with no adverse effects on tool life or other factors.
Wide application range	Potential for product rationalization leading to reduced inventory costs.
Suitable for a wide range of water qualities	Multi-site, multi-seasonal application range.
Excellent protection against rust and corrosion	Helps to prolong the life of machine tools and can provide short term protection for work pieces.
Free of chlorine or nitrites	Reduces disposal costs and protects the environment compared to chlorine and nitrite contain fluids.

Applications

Mobilcut 220 is ideal for all ferrous alloys machining and grinding and will perform well on alloys in both annealed and fully hardened condition. Mobilcut 220 can be used on aluminum alloys where staining of the surface is not a critical concern.

Mobilcut 220 is suitable for general purpose machining and grinding.

Operations / Recommended Dilutions	Mobilcut 220
Grinding (non-critical)	4-5%
Turning, drilling, milling	5-8%
Heavy duty machining (ferrous)	6-10%
Aluminum machining	6-10%

To obtain the best performance using Mobilcut 220 it is recommended to clean and sterilise the machine by using Mobilcut ESC and then flush with diluted product.

Typical Properties

Grade	Mobilcut 220
Concentrate	
Appearance	Amber Liquid
Density @ 20C	0.99
Dilution	
Appearance @ 3%	Translucent
pH @ 3%	8.9 – 9.6
Cast Iron Corrosion, Breakpoint, %	2

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. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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