



## APPLICATIONS

**Eni Aquamet 700 MB** is a semi-synthetic cutting fluid with excellent technological characteristics free from chlorine, boron, secondary amine and bactericidal.

It guarantees low foam formation in a wide range of water hardness.

Excellent performance in medium-severe chip removal operations on ferrous materials in single and/or centralized plants.

The high detergent power guarantees high performance in grinding operations.

The product can be used even to machining aluminum and its alloys after a positive result in the staining test.

## CUSTOMER ADVANTAGES

- Good lubricant properties guarantee tool life prolonged and good machined surface quality
- Low foam formation in a wide range of water hardness (optimal range: 10-45°F)
- The high rust resistance properties guarantees good performance on steels and in particular on cast iron machining
- Excellent detergent and anti-corrosive properties guarantees protection for machine tools, equipment and workpieces

## SPECIFICATIONS & APPROVALS

- ISO 6743/7 MAE





## CHARACTERISTICS

Properties	Method	Unit of Measure	Typical
Characteristics of the concentrate		-	
Appearance	-	-	clear
Density at 20°C	ASTM D 1298	kg/m <sup>3</sup>	1000
<b>Characteristics of the emulsion</b>			
Aspect of emulsion (3%, water 20 °F)	-	-	transparent
pH soluz. 3%	ASTM D 1287	-	10.2
Corrosion test	IP 125	-	pass at 3%
Refractometric factor	-	-	2.5

## WARNINGS

- Before start the emulsification operation, it is necessary to carry out adequate cleaning of the tanks and cooling circuits with suitable products.
- Prepare the mixture using an emulsifier, if possible.
- In case of manual mixing, it is recommended to add the product in the water slowly and shaking the mixture. Never vice versa, to avoid problems of emulsion instability.
- To prevent the product deterioration, due to the heat changes for the exposure of the outdoor containers, storage in closed environments at temperatures between +5 and +30° C, is recommended.
- Periodical monitor of the lubricant cooler status is recommended. This is in order to ensure the steady state of the operating parameters and the useful life of the emulsion over time.
- In order to obtain the best results, it is recommended to always follow the above indicated instruction.
- More detailed information will be provided by the Eni Technical Assistance Service.



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## HANDLING INFORMATION

- Here below are reported the recommended concentrations; However, adjustment of effective concentration is necessary according to the specific operational conditions. Given the complex nature of aluminum alloys, it's suggested to check always the stain test before any processing.

Processing	Cast Iron	Steel, Steel Inox	Aluminum and Alloys
Grinding	5%	5%	
Turning, Milling	5%	7%	7%
Boring, Drilling	7%	10%	9%

