



APPLICATIONS

Eni Aquamet S 700 BS is a water-soluble, totally synthetic cutting fluid, free of mineral oil, chlorine, boron and bactericide.

Recommended for grinding operations on all ferrous and non-ferrous materials. The product can also be used in light chips removal operations.

CUSTOMER ADVANTAGES

- The high level of detergency assure the cleaning of the working area, excellent finishing of machined surfaces and a long life of abrasive wheel
- Low foam formation, even under high pressure delivery
- Suitable for cutting operations with a wide range of water hardness (optimal range: 5-45°F)
- Absence of sticky residue on machinery

SPECIFICATIONS & APPROVALS

- ISO 6743/7 MAG





CHARACTERISTICS

Properties	Method	Unit of Measure	Typical
Characteristics of the concentrate			
Appearance	-	-	clear
Density at 20°C	ASTM D 1298	kg/m ³	1050
Characteristics of the emulsion			
Aspect of emulsion (3%, water 20 °F)	-	-	trasparent
pH emuls. 3%	ASTM D 1287	-	8.4
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.





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	Copper and Alloys
Grinding	4%	5%		
Turning, Milling	5%	7%	7%	6%



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