Eni Aquamet S 700 BS

APPLICATIONS

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

Recommended for grinding operations on all ferrous and non-ferrous materials.

Eni Aquamet S 700 BS can be used also in light cutting operations.

CUSTOMER ADVANTAGES

- Transparent solution for a better visibility of the working area
- Free from boron, secondary amines and bactericide for a lower ecotoxicological impact and better working conditions
- The high detergency guarantees the cleaning of the working area, an excellent workpiece surface finishing and a longer grinding wheel life
- Low tendency to form foam, even in presence of high delivery pressure
- Suitable in a wide range of water hardness (optimal range: 5-45°F)
- Absence of sticky residues on machinery
- Excellent anti-rust power

SPECIFICATIONS - APPROVALS

- ISO 6743/7 MAH

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CHARACTERISTICS

Properties	Method	Unit	Typical
<![CDATA[**Characteristics of the concentrate**]]>			
Appearance	-	-	clear
Density at 20°C	ASTM D 1298	kg/m³	1050
<![CDATA[**Characteristics of the emulsion**]]>			
Emulsion appearance (3%, water 20°F)	-	-	trasparent
pH emuls. 3%	ASTM D 1287	-	8.4
Corrosion	IP 125	-	pass at 3%
Refractometric factor	-	-	2.5

WARNINGS

- Before preparing the solution it is necessary to clean the tank and the circuits of the machine tool with suitable products
- Prepare the solution using possibly an emulsifier
- 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
- Store the product in closed warehouses at temperature between +5 and +30°C in order to prevent product deterioration due to thermal shocks
- Monitoring of the working emulsion is recommended in order to ensure emulsion performance in time and prolong its useful life
- More detailed information will be provided by the Eni Technical Assistance Service

HANDLING INFORMATION

- Here below are reported the recommended concentrations; however the actual

concentration will be defined according to the specific operative conditions

- Due to 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	5%	5%		
Turning, Milling	6-8%	6-8%	6-8%	6-8%
Boring, Drilling	8-10%	8-10%	8-10%	8-10%