



Product Data

## Hysol™ 701 EF

High performance semi-synthetic metalworking fluid

### Description

Castrol Hysol™ 701 EF is a high performance semi-synthetic metalworking fluid which is boron, formaldehyde releasing agent and chlorine free. It contains an additive package that helps to enhance machining performance and surface finish, provide excellent product stability, improve system life and lower the overall operations costs.

Hysol 701 EF is suitable for large central systems and single sump machines.

### Application

Hysol 701 EF is designed for machining and grinding application for aluminium alloys, as well as ferrous alloys.

ü ü suggested core application ü possible application, please consult Castrol representative prior to use

	Cast Iron	Low -Medium alloyed steel	High alloyed / stainless steel	Aluminium alloys	Magnesium alloys	Yellow Metals
Grinding				ü ü		
Miling, Turning (General Machining)	ü	ü ü	ü	ü ü		
Drilling	ü	ü ü	ü	ü ü		
Reaming, Tapping	ü	ü ü	ü	ü ü		
Broaching	ü	ü		ü ü		

### Advantages

- Boron free for environmental compliance and improved residue characteristics
- Chlorine, formaldehyde releasing agent and nitrite free to fulfill your local legislation, waste treatment and environmental requirements
- Helps to extend fluid life and reduce maintenance and machine downtime
- Low foam in recommended water conditions
- Lubrication package specifically designed to enhance tool life and improve surface finish in aluminium machining
- Excellent wetting properties reduce coolant drag out and deliver clean machine tools and components
- Excellent compatibility with machine tools – non sticky residue, non aggressive to paints and superior corrosion protection

## Typical Characteristics

Name	Method	Unit	Hysol 701 EF
<b><u>Concentrate</u></b>			
Appearance	Visual		Light Amber
Mineral oil content	Calculated	Wt%	25
<b><u>Emulsion</u></b>			
Appearance	Visual		Milky
pH (5%)	DIN 51369 ASTM E70-97		9,2
Refractometer Factor			1,3

Subject to usual manufacturing tolerances.

## Recommended Concentrations

Grinding	3-5%
General Machining	4-8%
Drilling	5-8%
Reaming and tapping	6-10%
Broaching	6-10%
Water range	20-600 ppm CaCO <sub>3</sub>

## Additional Information

	Boron	Formaldehyde releasing agent	EP- Ester	Amines	Chlorine
Additives			ü	ü	

## Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer the product safety data sheet.

Hysol™ 701 EF

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