



Product Data

Hysol 11 FF

High performance semi-synthetic metalworking fluid

Description

Castrol Hysol™ 11 FF is a high performance semi synthetic metalworking fluid, formulated without formaldehyde releasing agents. It contains an additive package that helps to enhance machining performance and surface finish, provide good product stability and lower the overall operations costs.

Hysol 11 FF is suitable for large central systems and single sump machines

Application

Hysol 11 FF is especially designed for grinding of low to medium alloyed steel and machining cast iron.

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

	Cast Iron	Low-medium alloyed steel	High alloyed - stainless steel	Aluminium alloys	Magnesium alloy	Yellow metals
Grinding	**	**				
Milling, Turning (general machining)	**	*				
Drilling	**					
Reaming, Tapping	*					
Broaching						

Advantages

- Formulated without formaldehyde releasing agent help you to fulfil aspects of legislative requirements and waste treatment requirements that specify that these chemicals are excluded
- Extended fluid life can help reduce maintenance and machine downtime
- Low foam in recommended water conditions (see details in below)
- Good wetting properties can help reduce coolant drag out and help deliver cleaner machine tools and components

Typical Characteristics

Name	Method	Units	Value
Concentrate			-
Colour	Visual		Pale Amber
Mineral Oil Content	Calculated	Wt%	10
Emulsion			-
Appearance	Visual		Translucent
pH (5%)	DIN 51369, ASTM E70-97		9.2-9.9
Refractometer Factor			2.7

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding 5 - 7%
General Machining 6 - 10%

Water hardness range 100 - 600 ppm CaCO₃

Hysol 11 FF
30 Sep 2024
Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

<http://msdspds.castrol.com>