



Product Data

Hysol™ 6510

High performance semi-synthetic metalworking fluid

Description

Castrol Hysol™ 6510 (previously called Clearedge™ 6510) is a high performance semi-synthetic chlorine free metalworking fluid. 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 6510 is suitable for large central systems and single sump machines.

Application

Hysol 6510 is especially designed for grinding of steel and machining of low-medium alloyed steel and cast iron.

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	ü ü	ü			
Miling, Turning (general machining)	ü ü	ü ü	ü			
Drilling	ü	ü	ü			
Reaming, Tapping	ü	ü				
Broaching						

Advantages

- Formaldehyde releasing free to comply with health and safety regulations
- Chlorine and nitrite free to fulfill your local legislation, waste treatment and environmental requirements
- Long system life can help to reduce maintenance and machine downtime
- Low foam in recommended water conditions
- Excellent wetting properties helps to reduce coolant drag out and deliver clean machine tools and components

Typical Characteristics

Name	Method	Units	Hysol 6510
<i>Concentrate</i>			
Appearance	Visual		Amber
Mineral Oil Content	calculated	Wt%	22
<i>Emulsion</i>			
Appearance	Visual		Transparent
pH (5%)	ASTM E70-97 / DIN 51369		9.5
Refractometer Factor			1.5

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding 4-5%
General Machining 5-8%

Water Range 50-600 ppm CaCO₃

Additional Information

	Boron	Formaldehyde releasing agent	EP-Ester	Amines	Chlorine
Additives	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.

This product was previously called Clearedge 6510. The name was changed in 2015.

Hysol™ 6510

26 Feb 2015

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>