



Hysol™ 6510

High performance semi-synthetic metalworking fluid

Description

Castrol Hysol™ 6510 (previously called Clearedge™ 6510) is a semi-synthetic cutting and grinding fluid for ferrous metals. This fluid offers exceptional hard water stability and is designed for central system applications where long fluid life and cleanliness are key product attributes. Hysol 6510 eliminates many of the problems commonly associated with traditional semi-synthetic fluids.

It is formulated with innovative technology to provide long fluid life and stability. This technology results in significant inuse savings by reducing system recharges, make-up rates and additive purchases.

Application

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

	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						

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

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
Appearance	CN-TM-007	-	Clear Amber
Specific Gravity @ 15°C	CN-TM-084	g/ml	0.99 - 1.02
pH (5%) DI	CN-TM-069	-	9.3 - 9.8

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding 4-5%
General Machining 5-8%

Water Range 50-600 ppm CaCO₃

Concentration Control

Refractometer Factor: 1.7

To calculate the concentration of the diluted fluid, multiply the Refractometer reading by the factor to come up with the in-use concentration.

Additional Information

	Boron	Formaldehyde releasing agent	Chlorine	Nitrites
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
18 Mar 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. Material 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.

BP Lubricants USA Inc., 1500 Valley Road, Wayne, NJ 07470
Telephone: +1-888-CASTROL Product Information: +1-877-641-1600
www.castrol.com/en_us/b2b/home.html