

Variocut G 600 HC

High performance neat cutting oil

Description

Castrol Variocut™ G 600 HC is a chlorine and heavy-metal free neat cutting oil based on the latest generation of Extreme High Viscosity Index (EHVI) hydrocracked base oils.

Application

Variocut G 600 HC is designed for high speed, creep feed grinding, especially gear grinding of ferrous and yellow metals with CBN and carborundum wheels.

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

	Cast Iron	Low-medium alloyed steel	High alloyed steel / nickel-chromium alloys	Titanium alloys	Aluminium alloys	Yellow metals
Honing/ Superfinishing	ü	ü			ü	ü
Grinding	ü ü	ü ü	ü ü		ü ü	ü ü
Drilling					ü ü	ü ü
Broaching						
Gear manufacturing	ü ü	ü ü			ü ü	ü ü
General machining	ü ü	ü ü			ü ü	ü ü

Advantages

- Low oil mist and foam characteristics, even at high pressures and flow rates, can lead to a reduction in oil consumption and increased production rates
- Superior additive technology helps to improve cutting and grinding efficiencies, increased tool life, surface finish and can lower overall operating costs
- Low viscosity and excellent wetting characteristics can reduce drag out and helps to reduce product usage
- Good filtering characteristics and high oxidation stability can increase product lifetime
- Multi-metal machining using our superior additive technology may provides opportunity for product consolidation
- Our chlorine and heavy-metal free formulation helps to improve the environmental profile and reduces disposal costs
- Low odour, light colour and low mist qualities result in high operator acceptability

Typical Characteristics

Properties	Standard	Unit	Data
Appearance	Visual		Pale Yellow
Viscosity @ 40°C	DIN 51562 ASTM D 445	mm ² /s	9.2
Flashpoint COC	ISO 2592 ASTM D 92	°C/°F	>165/>320
Copper corrosion	ISO 2160 ASTM D 130	3 hr at 100 °C	1b
RBOT	ASTM D 2272	min	185

Subject to usual manufacturing tolerances.

Additional Information

	ester	active sulphur	inactive sulphur	phosphorous	calcium	chlorine	zinc
Additives	ü	ü	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.

Variocut G 600 HC

17 Mar 2016

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.

Castrol (UK) Limited, PO BOX 352, Chertsey Road, Sunbury On Thames, Middlesex, TW16 9AW

Orders/Enquiries: 0345 9645111 Technical Enquiries: 0345 082 1719

www.castrol.com/industrial