



Product Data

Variocut™ G 500

High performance neat cutting oil

Description

Castrol Variocut™ G 500 (previously called Ilogrind™ FGO 100) is a chlorine and heavy-metal free neat cutting oil.

Application

Variocut G 500 is designed for flute, form and gear grinding with carborundum and SG wheels.

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

Advantages

- Low foam characteristics, even at high pressures and flow rates, leads to increased production rates.
- Superior additive technology can lead to extremely high cutting and grinding efficiencies, increased tool life, improved surface finish, and lower overall operating costs.
- Multi-metal machining using our superior additive technology provides opportunity for product consolidation.
- Low odour, high flashpoint, low mist and light colour result in high operator acceptability.
- Our chlorine and heavy-metal free formulation improves the environmental profile and reduces disposal costs

Typical Characteristics

Description	Test Method	Unit	Variocut G 500
Appearance	Cn-TM-007	-	Yellow
Specific Gravity @ 15°C	CN-TM-084	kg/m ³	0.85 - 0.87
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	19 - 24
Flash Point - COC	ASTM D92	°C	190 - 200
Copper corrosion (3 hrs@100°C/212°F)	ASTM D130	Rating	1b

Subject to usual manufacturing tolerances.

Typical Physical Characteristics

	Ester	Active Sulphur	Inactive Sulphur	Phosphorous	Calcium	Chlorine	Zinc
Additives	ü	-	-	ü	-	-	-

Storage

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

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

This product was previously called Ilogrind™ FGO 100. The name was changed in 2015.

Variocut™ G 500

12 Jan 2018

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