Product Data

Castrol Variocut G 650 HC

High-performance neat cutting oil

Description

Castrol Variocut™ G 650 HC is a chorine- and heavy metal-free neat cutting oil based on the latest generation of Extreme High Viscosity Index (EHVI) hydrocracked base oils.

Application

Variocut G 650 HC is designed for high-speed, creep feed and gear grinding of ferrous metals with CBN and carborundum wheels. Variocut G 650 HC is also suitable for general machining and deep drilling operations on ferrous metals.

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

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 leads to extremely high cutting and grinding efficiencies, improved surface finish and can lead to increased tool life and lower overall operating costs.
- Low viscosity and excellent wetting characteristics reduce drag out and can result in lower product usage.
- Good filtering characteristics and high oxidation stability help increase product lifetime.
- Our chlorine- and heavy metal-free formulation improves the environmental profile and reduces disposal costs.
- Low odor, light color and low mist qualities result in high operator acceptability.

Typical Characteristics

Properties	Unit	Standard	Data
Appearance	Visual	Visual	Yellow
Viscosity @ 40°C	mm^2/s	DIN 51562	9.1
Viscosity@ 100°F	[SUS]	ASTM D 446	61
Density @ 15°C	kg/m^3	DIN 51757 ASTM D 1298	827
	lbs/gal	Calculated	6.90
Flashpoint COC	°C	EN ISO 2592	> 160
	°F	ASTM D 92	> 320
Copper corrosion	3 hr at 100°C	ISO 2592 ASTM D 130	1a
Brugger Lubricant Tester	N/mm^2	DIN 51347	168

	Ester	Active sulphur	Inactive sulphur	Phosphorous	Calcium	Chlorine	Zinc
Additives	+	+	+	+	-	-	-

Castrol Variocut G 650 HC
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