

Castrol Variocut G 650 HC

High-performance neat cutting oil

Description

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

Applications

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 alloy	Titanium alloy	Aluminum alloy	Yellow metals
Honing/Superfinishing						
Grinding	✓	✓	✓			
Drilling	✓	✓				
Broaching/Gear manufacturing						
General machining	✓	✓	✓			

	Ester	Active sulfur	Inactive sulfur	Phosphorus	Calcium	Chlorine	Zinc
Additives	✓	✓	✓	✓			

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.

Characteristics

	Unit	Test Method	Value
Appearance	-	CN-TM-007	Amber
Viscosity @ 40° C	cSt	CN-TM-101	9.25
Viscosity @ 100° F	SUS	CN-TM-101	58
Specific Gravity	@ 60°F (16°C)	CN-TM-086	0.8515
Flashpoint COC	°F	CN-TM-039	335
Copper corrosion	-	MW-TM-028	1B max

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