

Ilocut 103

High performance neat cutting oil

Description

Castrol Ilocut™ 103 is a medium viscosity, chlorine and heavy metal free neat cutting oil.

Application

Ilocut 103 is designed for gear cutting and general machining of cast iron, high alloyed steels and yellow metals.

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

Advantages

- Advanced additive technology gives high extreme pressure (EP) lubricity properties and lowering production costs through extended tool life
- Improved surface finish and increased cutting speeds leads to improvement of process efficiency
- Multi-metal machining using our superior additive technology provides opportunity for product consolidation
- Our chlorine and heavy metal free formulation improves the environmental profile and reduces disposal costs

Characteristics

	ester	active sulphur	inactive sulphur	phosphorous	calcium	chlorine	zinc
Additives	+	+	+	-	-	-	-

Typical Physical Characteristics

Properties	Standard	Unit	Data
Appearance	Visual	Visual	Brown
Viscosity @ 40°C	DIN 51562	mm ² /s	34
Viscosity@ 100°F	ASTM D 446	[SUS]	152
Density @ 15°C	DIN 51757	kg/m ³	885
	ASTM D 1298		
	Calculated	lbs/gal	7.39
Flashpoint	ISO 2592	*C	>180
	ASTM D 92	*F	>355
Copper corrosion	ISO 2160 ASTM D 130	3 h at 100°C	1b

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