



Product Data

Ilocut 820

High performance neat cutting oil

Description

Castrol Ilocut™ 820 is a chlorine and heavy-metal free neat cutting oil especially formulated with a unique combination of ester, extreme pressure (EP) additives and base oil to optimise machining performance, enhance surface finish and lower the overall operating costs.

Application

Ilocut 820 is designed for grinding, general machining and deep drilling of ferrous metals, low and medium alloyed steels.
It contains active sulphur and may not be suitable for yellow metals.

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						
Grinding	ü	ü	ü		ü	
Drilling	ü ü	ü ü	ü		ü	
Broaching	ü ü	ü			ü	
Gear manufacturing	ü ü	ü			ü	
General machining	ü ü	ü ü	ü		ü	

Advantages

- Superior additive technology leads to extremely high cutting and grinding efficiencies, increased tool life, improved surface finish and lower overall operating costs
- Low oil mist even at high pressures and flow rates, lead to a reduction in oil consumption and increased production rates
- Good filtering characteristics and high oxidation stability increase product lifetime
- Our chlorine and heavy-metal free formulation improves the environmental profile and reduces disposal costs
- Low odour, light colour and low mist qualities result in high operator acceptability
- Chlorine and heavy-metal free formulation improves the environmental profile and reduces disposal costs

Typical Characteristics

Name	Test Method	Unit	Ilocut 820
Appearance	Visual		Yellow
Specific Gravity @ 15°C / 59°F	ASTM D1298 / ISO 3675	kg/m ³	870
Kinematic Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm ² /s	16.3
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	>168 / >330
Copper corrosion (3 hrs@100°C/212°F)	ASTM D130 / ISO 2160	Rating	4c

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.

Ilocut 820
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