



## llocut 11

High performance neat cutting oil

### Description

Castrol llocut™ 11 is a highly chlorinated, sulphur and heavy metal free neat cutting oil.

### Application

llocut 11 offers our highest machining performance for broaching and gear manufacturing of steels, stainless steels and difficult nickel alloys. This product is compatible with non-ferrous 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	Titianium alloys	Aluminium alloys	Yellow metals
Honing/Superfinishing						
Grinding						
Drilling	ü	ü	ü	ü	ü	ü
Broaching/Gear manufacturing	ü ü	ü ü	ü ü	ü	ü ü	ü ü
General Maching	ü ü	ü ü	ü	ü	ü ü	ü ü

### Advantages

- Advanced additive technology gives high extreme pressure (EP) lubricity properties, lowering production costs through extended tool life, improved surface finish and increased cutting speeds
- High EP lubricity properties minimise temperature built up and smoking, resulting in improved operator acceptance
- Multi-metal machining using our superior additive technology provides opportunity for product consolidation
- Low odour, light colour and low mist result in operator acceptability

## Typical Characteristics

Name	Method	Units	Illocut 11
Appearance	Visual	-	Pale Yellow
Density @ 15°C / 59°F	ASTM D4052 / ISO 12185	kg/m <sup>3</sup>	0.990
Kinematic Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	18
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	198
Copper corrosion (3 hrs@100°C/212°F)	ASTM D130 / ISO 2160	Rating	1b

## 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. 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.

Illocut 11

23 Mar 2015

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