

Performance Bio™ NC Ultra Lite EP

High performance neat cutting oil

Description

Castrol Performance Bio™ NC Ultra Lite EP is a chlorine free, multi-metal compatible, high performance neat cutting oil, which is based on plant oil and synthetic hydrocarbon technology. Customer feedback* has highlighted low misting characteristics, robust oxidation stability and excellent cooling properties, which can help create productivity increases.

Application

Performance Bio NC Ultra Lite EP is designed for drilling, gear manufacturing and general cutting operation of ferrous and non-ferrous metals.

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

√ √ suggested core application √ possible application, please consult Castrol representative prior to use

Advantages

- Customers have commented favorably on the low misting and smoking characteristics. This helps to reduce oil consumption.
- High oxidation stability increases product lifetime and reduce oil consumption
- Plant oil based technology shows better cooling properties than traditional mineral oils. This characteristic could help support productivity increases
- Our chlorine free formulation can help reduce disposal costs
- Low odour and light colour help to improve the working environment
- Multi-metal compatibility provides opportunity for product consolidation

Typical Characteristics

Properties	Test Method	Unit	Performance Bio NC Ultra Lite EP
Appearance	Visual	-	Light Yellow
Viscosity @ 40°C	ASTM D 445	cSt	12 - 19
Specific Gravity @ 15°C	CN-TM-084	g/cm ³	0.80 - 0.88
Flashpoint PMCC	ASTM D 92	°C	170 - 176
Copper corrosion	ASTM D 130	3 hr at 100 °C	1b

Subject to usual manufacturing tolerances.

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.

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