



Product Data

Performance Bio NC Ultra Lite EP

High performance neat cutting oil

Description

Castrol Performance Bio NC® Ultra Lite EP is a multi-metal compatible, high performance neat cutting oil, which is based on plant oil and synthetic hydrocarbon technology and formulated without Chlorine. 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.

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	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

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
- Formulated without Chlorine which can help reduce disposal costs
- Low odor and light color help to improve the working environment
- Multi-metal compatibility provides opportunity for product consolidation

Typical Characteristics

Properties	Standard	Unit	Performance BIO NC Ultra Lite EP (typical values)
Appearance	Visual		Light Yellow
Viscosity @ 40°C	DIN 51562 ASTM D 445	mm ² /s	16
Viscosity @ 100°F	ASTM D 445	SUS	88
Flashpoint COC	ISO 2592 ASTM D 92	°C/°F	173/343
Copper corrosion	ISO 2160 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.

Performance Bio NC Ultra Lite EP

03 Dec 2020

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