



Product Data

Performance Bio NC Ultra Lite

High performance neat cutting oil

Description

Castrol Performance Bio NC Ultra Lite 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 is designed for drilling, gear manufacturing and general cutting operation of ferrous and 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 alloys	Titanium alloys	Aluminium alloys	Yellow metals
Honing/ Superfinishing	ü	ü		ü	ü ü	ü ü
Grinding	ü	ü		ü	ü	ü
Drilling	ü ü	ü ü		ü ü	ü ü	ü ü
Broaching	ü	ü		ü ü	ü ü	ü ü
Gear manufacturing	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
- This product has shown good filtering characteristics in a 3rd party's filtration test**. This helps to extend the life of the fluid and helps to keep the working environment clean.
- 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

* Based on feedback received from our customers in the USA using Performance Bio NC fluids

** A 3rd party producer of filters for the grinding segment was asked to use their in-house test to assess whether they would approve this cutting oil for use with their products based on its filtering characteristics.

Typical Characteristics

Properties	Standard	Unit	Data
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

Storage

To avoid product deterioration always keep the container/drum tightly sealed. For optimum product stability, store between 5°C/41°F and 45°C/113°F in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. It is preferable to store the product indoors.

For more details, please refer the product safety data sheet.

Performance Bio NC Ultra Lite

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