

Performance Bio NC Plus

High performance neat cutting oil

Description

Castrol Performance Bio NC Plus is a chlorine free, multi-metal compatible, high performance neat cutting oil, which is based on plant oil 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 Plus is designed for gear manufacturing and general cutting operation of ferrous and nonferrous metals. Customer trials* have also shown success in light forming operations.

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						
Drilling	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	ü ü
General machining	ü 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
- Our chlorine free formulation can help reduce disposal costs
- High flashpoint, 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

Typical Characteristics

Properties	Standard	Unit	Data
Appearance	Visual		Light Yellow
Viscosity @ 40°C	DIN 51562 ASTM D 445	mm ² /s	40
Viscosity @ 100°F	ASTM D 445	SUS	190
Flashpoint COC	ISO 2592 ASTM D 92	°C/°F	282/540
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.

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