



Performance Bio™ NC Plus

High performance neat cutting oil

Description

Castrol Performance Bio™ NC Plus (previously called Performance Biolubes™ NuCut 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 increase productivity.

Application

Performance Bio NC Plus is designed for gear manufacturing and general cutting operations of ferrous and nonferrous metals. Performance Bio NC Plus may also be used in selected Minimum Quantity Lubrication (MQL) and light duty forming operations.

	Cast Iron	Low-medium alloyed steel	High alloyed steel / nickel-chrome alloys	Titanium alloys	Aluminum 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

ü ü suggested core application ü 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
- High flashpoint, low odour and light colour help to improve the working environment
- Multi-metal compatibility provides opportunity for product consolidation
- Multi-purpose fluid, may be used in Minimum Quantity Lubrication (MQL) and light duty Forming applications

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

Typical Characteristics

Description	Test Method	Unit	Performance Bio NC Plus
Appearance	CN-TM-007	-	Light Yellow
Viscosity @ 40°C	ASTM D 445	cSt	37 - 46
Specific Gravity @15°C	CN-TM-084	g/cm ³	0.90 - 0.95
Flashpoint PMCC	ASTM D 92	°C	280 - 285
Copper corrosion	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.

This product was previously called Performance Biolubes NuCut Plus. The name was changed in 2015

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