



Product Data

Performance Bio™ NC Lite

High performance neat cutting oil

Description

Castrol Performance Bio™ NC Lite (previously called Performance Biolubes™ Nucut 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 increase productivity.

Application

Performance Bio NC Lite is designed for gear manufacturing and general cutting operations of ferrous and nonferrous 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
Broaching	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

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
- 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

Description	Test	Unit	Performance Bio NC Lite
Appearance	CN-TM-007	-	Light Yellow
Viscosity @ 40°C	ASTM D 445	cSt	22 - 27
Specific Gravity @ 15°C	CN-TM-084	g/cm ³	0.8 - 1.0
Flashpoint COC	ASTM D 92	°C	210 - 220
Copper corrosion	ASTM D 130	3 hr at 100 °C	1b

Storage

To avoid product deterioration, keep the container/drum tightly sealed always. Prevent any frost and water ingress. Store it in a cool and dry place away from direct sunlight. It is preferable to store the product indoors always. For more details, please refer the product safety data sheet.

This product was previously called Performance Biolubes Nucut Lite. The name was changed in 2015

Performance Bio™ NC Lite

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