



Product Data

## Performance Bio™ NC Super Lite

High performance neat cutting oil

### Description

Castrol Performance Bio™ NC Super Lite (previously called Performance Biolubes™ NuCut Super 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 Super Lite is designed for honing and light grinding of ferrous and non-ferrous metals. Further it can be used for a wide variety of operations on aluminium and yellow metal alloys.

	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 ü	ü ü
Grinding	ü	ü		ü	ü	ü
Drilling	ü	–	–	–	ü ü	ü ü
Broaching	–	–	–	–	ü ü	ü ü
Gear manufacturing	–	–	–	–	ü ü	ü ü
General machining	–	–	–	–	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
- This product has shown excellent filtering characteristics in a 3<sup>rd</sup> 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 3<sup>rd</sup> 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

Description	Method	Unit	Performance Bio NC Super Lite
Appearance	CN-TM-007	-	Light Yellow
Viscosity @ 40°C	ASTM D 445	mm <sup>2</sup> /s	7 - 9
Specific Gravity @15°C	CN-TM-084	g/cm <sup>3</sup>	0.80 - 0.85
Flashpoint COC	ASTM D 92	°C	160 - 170
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 Super Lite. The name was changed in 2015.**

Performance Bio™ NC Super Lite

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BP Lubricants USA Inc., 1500 Valley Road, Wayne, NJ 07470  
Telephone: +1-888-CASTROL Product Information: +1-877-641-1600  
[www.castrol.com/en\\_us/b2b/home.html](http://www.castrol.com/en_us/b2b/home.html)