



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

15 Jun 2015

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

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