



Product Data

Castrol CareCut ES 14

High performance neat cutting oil

Description

Castrol CareCut™ ES 14 is a high performing neat cutting fluid formulated without chlorinated paraffines and mineral oil, based on advanced syntehtic ester technology.. It is especially formulated with a combination of anti-wear additives and boundary lubricants to help optimise machining performance, enhance surface finish and lower the overall operating costs.

It can be used in single sump machines and large central systems.

Application

CareCut ES 14 is designed for several machining applications including grinding, drilling, general machining, broaching and gear manufacture of ferrous and non ferrous metals.

CareCut ES 14 does not contain active sulphur and is hence compatible with yellow metals.

√√ suggested core application √ possible application, please consult Castrol representative prior to use

	Cast Iron	Low alloyed steel	High alloyed steel/ stainless steel	Titanium alloys	Aluminium alloys	Yellow Metals
Honing/ Super finishing						
Grinding	√√	√	√		√√	√√
Drilling	√√	√	√		√√	√√
Broaching/ Gear Manufacture	√√	√√	√		√√	√√
General Machining	√√	√√	√√	√	√√	√√

Advantages

- Low oil mist and foam characteristics, even at high pressures and flow rates, can help to a reduce oil consumption and increase production rates.
- Excellent flushing and lubrication properties can extend tool life and enable high surface finish and dimensional accuracy.
- Good filtering characteristics and high oxidation stability help increase product lifetime.
- Formulated without chlorinated paraffines helps you to fulfil aspects of legislative requirements and waste treatment requirements that specify that this chemical is excluded
- High flashpoint, low odour, light colour and low mist qualities can improve the work environment.
- Multi-metal machining using our superior additive technology provides opportunity for product consolidation

Typical Characteristics

Name	Method	Units	CareCut ES 14
Density @ 15C, Relative	ASTM D4052	g/ml	0.869
Viscosity, Kinematic 40°C mm ² /s	ASTM D445	mm ² /s	14
Flash Point, COC	ASTM D92	°C	> 250
Appearance	Visual		Clear & Bright
Copper Corrosion, 3hrs @ 100C	ASTM D130	Rating	1b

Subject to usual manufacturing tolerances.

Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress.

For more details, please refer the product safety data sheet

Castrol CareCut ES 14

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