

Castrol CareCut ES 3

High performance neat cutting oil

Description

Castrol CareCut™ ES 3 is a chlorine and heavy metal free neat cutting fluid based on advanced biodegradable ester technology.

Application

CareCut ES 3 is designed for severe honing and superfinishing of ferrous and non-ferrous materials. It can also be used for grinding applications, drilling and general machining of aluminium, yellow metals, cast iron and medium alloyed steel.

	Cast Iron	Low-medium alloyed steel	High alloyed steel /nickel-chromium alloys	Titanium alloys	Aluminium alloys	Yellow metals
Honing/Superfinishing	✓	✓	✓	-	✓	✓
Grinding	✓	✓	✓	-	✓	✓
Drilling	-	-	-	✓	✓	✓
Broaching/Gear manufacturing	-	-	-	-	-	-
General machining	✓	✓	-	-	✓	✓

Advantages

- Excellent flushing and lubrication properties extend honing stone life and enable high surface finish and dimensional accuracy
- Low viscosity and excellent wetting properties reduce drag out and result in lower product usage
- Good filtering characteristics and high oxidation stability increase product lifetime
- Our chlorine and heavy metal free formulation, based on advanced biodegradable ester technology improves the environmental profile and reduces disposal costs
- High flashpoint, low odour, light colour and low mist qualities improve the work environment
- Multi-metal machining using our superior additive technology provides opportunity for product consolidation

Typical Characteristics

Properties	Standard	Unit	Data
Appearance	Visual	Visual	Pale yellow
Viscosity @ 40°C	DIN 51562	mm ² /s	5,5
Viscosity@100°F	ASTM D 446	[SUS]	46
Density @ 15°C	DIN 51757 ASTM D 1298	kg/m ³	865
	Calculated	lbs/gal	7,2
Flashpoint COC	ISO 2592	°C	175
	ASTM D 92	°F	> 320
Copper corrosion	ISO 2160 ASTM D 130	3 hr at 100°C	1b

	ester	active sulphur	inactive sulphur	phosphorous	calcium	chlorine	zinc
Additives	+	-	-	-	-	-	-

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.

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