Product Data

CARECUT ES2

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Biodegradable Ester Based Machining & Grinding Fluid

DESCRIPTION

Castrol CareCut ES2 has been formulated using advanced biodegradable ester based technology and is intended for use in metalcutting and grinding machines where the performance of a neat advanced product is required. Because of the inherent lubricity and cooling properties, Castrol CareCut ES2 can be used in applications where traditionally much higher visciosity products were used. The physical characteristics of Carecut ES 2 mean that the flash point is relatively high and the low surface tension properties mean increased wetting characteristics which directly relates to low product consumptions.

APPLICATION

Castrol CareCut ES2 is recommended for metal-cutting and grinding applications where the material is difficult to machine. When used in metal-cutting applications it is particularly successful for deep hole drilling where it's ester performance easily out-performs that of traditional fluids. Carecut ES2 has proven itself on spray mist applications. Carecut ES 2 is suitable for use in all forms of high pressure coolant applications, all ferrous and non-ferrous metal machining.

When machining particularly difficult materials e.g. Stainless steel on sliding head machine tools, the use of Carecut ES 2 will give a number of benefits. In addition to those described on this sheet the machine speeds and feeds can be increased which reduces the time taken to complete production runs - which frees machine time to increase machining capacity.

Carecut ES 2 can be used for all forms of grinding, but especially effective with CBN wheels, severe grinding, form grinding and gear grinding on machines such as: Niles, Kapp Reishauer.

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FEATURES	BENEFITS
♦ Very high lubricity	♦ Improved tool life, surface finish and productivity (increased G ratio)
♦ Biodegradable	♦ Environmentally friendly
♦ Chlorine free	♦ Environmentally friendly
♦ Pale colour and low odour	♦ Pleasant to use
♦ Low misting	♦ Improved health and safety
♦ High flash point	

TYPICAL PHYSICAL CHARACTERISTICS

Colour	-	Light Straw
Odour	-	Mild
Density at 20ºC kg/m³	-	0.865
Viscosity at 40ºC, cSt	-	8.8
Flash point ºC	-	200

Health and Safety information sheets are available for all Castrol products from the address below:
Castrol (U.K.) Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, England, Telephone: Orders/Enquiries (08459)645111, Technical Enquiries (01793)452111, Fax (01793)486083

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