



Product Data

Castrol Ilocut® 5713

Chlorine-Replacement General Purpose Cutting Fluid

Description

Castrol Ilocut 5713 uses Castrol's chlorine replacement technology to provide a low viscosity cutting oil for machining and grinding ferrous and nonferrous alloys. This oil is especially recommended for machining small stainless steel, copper and brass parts on screw machines and Swiss-type automatics. Ilocut 5713 is compounded without the use of conventional sulfurized, chlorinated or phosphorus-based extreme pressure additives, making it an excellent choice to use when manufacturing parts for use in nuclear equipment. The clean red oil is nonstaining to copper and brass and is suitable for use in machines that require a single low viscosity oil to serve as a lubricant or spindle oil as well as the cutting oil.

Application

- Boring
- Drilling
- Milling
- Screw machining
- Turning

Advantages

- Chlorine replacement oil for cost savings when disposing of parts' cleaning solutions.
- Heavy-duty performance for prolonged tool life and precision finishes.
- Dual-purpose oil suitable for use in the lube side of machine tools.
- Nonstaining to copper, aluminum, titanium, and other commonly processed metals.
- Excellent boundary lubricity for efficient metal removal with low clearance tooling.
- Clear red color permits inspection of work in progress.

Characteristics

	Unit	Test Method	Value
Appearance	-	Visual	Clear Red Fluid
Specific Gravity	@ 60° F (16° C)	-	0.87 – 0.89
Viscosity	SUS @ 100° F (38° C)	CN-TM-101	75 - 85
Viscosity	cSt @ 40° C (104° F)	CN-TM-101	16
Flash Point	COC °F/°C	CN-TM-039	385 °F (196 °C)
Bulk Density	lbs/gal	-	7.3
Copper Corrosion	-	ASTM 130	1b
Chlorine	-	CN-TM-012	No
Fat	-	MW-TM-321	Yes
Sulfur	-	CN-TM-096	No
Active Sulfur	-	CN-TM-151	No

User advice

Consult your Castrol Sales Engineer for questions regarding compatibility.

Castrol Ilocut 5713
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Castrol Industrial North America Inc. 150 West Warrenville Road, 605 3E Naperville, IL 60563
Tel: (877) 641 1600 Fax: (877) 648 9801

www.castrol.com/industrial