



Product Data

Castrol Ilocut 1945™ Heavy Duty Neat Oil

Description

This product is a special blend of highly refined mineral oil and sulphurised synthetic ester containing active sulphur. The careful selection of the additives imparts very low odour and light colour to the product. The sulphur present reacts chemically at the tool work / chip interface, to produce metallic derivatives which forms low friction film between the metal surfaces. This film is effective even upto 1000 °C and minimises built up edge and ensures optimum anti-chip welding properties

Application

This product is ideally suited for multispindle automats, multitool lathes and form tool work.

Operation	Cast Iron	Carbon Steel	Alloy Steel	Stainless Steel	Copper Alloys	Aluminium Alloys
Gear Cutting	†	†	†	†	‡	‡
Gear Hobbing	†	†	†	†	‡	‡
Drilling & Reaming	†	†	†	†	‡	‡
Thread Milling	†	†	†	†	‡	‡

† Suitable

‡ Not Suitable

Advantages

Product Feature	Operational Advantage	Customer Benefits
Light Colour	Complete visibility of tool & Workpiece	Ease of operation
Low odour	Pleasant working environment	Operator friendly
Marked lubricity and better EP Properties	Less heat generation and improved surface finish	Excellent tool life and reduced rejections
Low fuming & Misting	Cleaner work atmosphere at the shop floor	Environment & operator friendly
Low oil drag out	Less oil top-up during machining	Reduced consumption & economy in usage

Castrol Ilocut 1945
28.10.2006, Version Number 1.0
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Characteristics

Characteristics	Typical Value
Colour	2.0
Relative Density @30 deg C	0.860
Kinematic Viscosity @ 40 deg C.cSt	29
Flash Point degC (coc)	180
Relative Sulphur %Wt	0.5
Copper strip corrosion @100deg c for 1 hour	4C
Four Ball Weld Load, kgs	800
Pour point, deg c	Minus 3.0

The above are typical figures and do not constitute a specification.

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