



Optimax 510

High Performance Neat Cutting Fluid

Optimax 510 is a technically advanced neat cutting and grinding fluid being formulated using an advanced biodegradable ester to provide enhanced polar lubrication that also includes extreme pressure additives to further improve product performance. This novel technology has been designed specifically for use in arduous metal cutting and grinding applications where fluid performance can achieve significant improvements in tool life and surface finish and is absolutely ideal for multi-metal and multi-application machining operations.

Optimax 510 is an oxidatively stable – high flash point fluid manufactured from severely refined and synthetic base stocks and its additive system resists solubilisation of Cobalt and other transition materials. The low viscosity also provides excellent flushing, penetration and filterability characteristics and due to its low volatility and wetting properties reduces product consumption over conventional oils. The low foam tendency of Optimax 510 is ideally suited for high speed and high pressure fluid applications.

Features & Benefits

- Low Misting
- Excellent Operator Acceptability
- Low Odour
- Low Volatility
- High Flash Point
- Excellent Flushing
- Low Foam
- Extended System Life
- Reduced Usage Through Top Ups
- Improved Tool Life
- Improved Surface Finish
- Improved Productivity

Applications

Optimax 510 is recommended for arduous metal-cutting and grinding applications where the surface finish is critical particularly on medium to high tensile steels and light machining operations on difficult to machine materials including Stainless Steels:

- CNC Lathe, Bar and Sliding Heads Machines for Turning, Drilling, Gun Drilling, Reaming, Boring, Tapping and Forming operations.

Safety information sheets are available for all Optimum products from the address below:

1 Ullenwood Court · Ullenwood · Cheltenham · Gloucestershire · GL53 9QS
Head Office: 01242 253 333 · Customer Services & Orders: 08719 188 881 · Fax: 08719 189 998
Email: technical@optimumoils.com · Web: www.optimumoils.com

All reasonable care has been taken to ensure that the information contained in this publication is accurate at the date of printing. The above information may be affected by changes occurring subsequent to the date of printing in the formulation and its application for the products referred to or in the requirements of any specification or approval relating to any such products.



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Applications (continued)

- Flute and Form Grinding Machines and particularly suited for High Speed and CBN Grinding operations.
- Arduous Steel Honing operations

Typical Physical Data

Appearance	Pale Straw
Relative Density (kg/m ³ @15.6°C)	0.85
Kinematic Viscosity (Cst@40°C)	12
Closed Flash Point - PMCC (°C)	169

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