



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
Pastes



Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Pencool S501

Extreme Pressure Semi Synthetic Metalworking Fluid
Product Code: AH5

Product Description

Pennine Pencool S501 is an extreme pressure, high dilution, semi-synthetic soluble cutting fluid incorporating the latest biostable technology. It is highly resistant to bacteriological and fungal degradation, giving freedom from bad smells and slimy deposits. Pencool S501 is a non-phenolic, low odour, nitrate free product based on solvent refined mineral oil which inhibits the staining of various non-ferrous metals including copper and aluminium, and their alloys.

Applications

Pennine Pencool S501 finds its main application in operations where extra lubricity is required, such as: sawing of aluminium and aerospace alloys, broaching, screw cutting of alloy steels, deep hole boring, spray applied gun drilling, etc.

Features & Benefits

- Translucent micro emulsion ~ Good workpiece visibility
- Highly biostable ~ Extended sump life / fewer fluid changes
- Multi metal compatibility ~ Allows for grade rationalisation
- Low odour emulsion ~ Excellent operator acceptability
- Extreme pressure performance ~ Promotes increased tool life

Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Brown
Appearance (emulsion)	Translucent
Specific Gravity @ 15°C	1.01
pH @ 5%	9.3
IP 287 Breakpoint Corrosion	3.33 %
IP 125 Herbert Corrosion Test	2.0%
Dilution Range (min ~ max)	4 ~ 10 %
Refractometer Conversion Factor	1.35
Water Hardness Range ppm CaCO3 (min ~ max)	50 ~ 300

Actual dilution rates may vary depending on application. Please consult with Technical Services to determine the most suitable dilution for your application.



Certificate Number: 9480
ISO 9001



Pennine Lubricants Limited Company reg no. 3510091



32 Atlas Way,
Sheffield, S4 7QQ

T. 0114 285 2987
E. info@penninelubricants.co.uk
W. www.penninelubricants.co.uk



Industrial Lubricants



Automotive Lubricants



Biodegradable Lubricants



Agricultural Lubricants



Cleaning & Maintenance



Greases & Pastes



Foodsafe Lubricants



Heritage Oils



Lubrication Equipment



Metalworking Fluids



Pencool S501

Extreme Pressure Semi Synthetic Metalworking Fluid

Product Code: AH5

Coolant Care

To promote maximum service life, it is strongly advised that coolant systems are thoroughly sterilised with Bioflush System Cleaner prior to coolant changes (see Bioflush Technical Data Sheet for further information and guidelines).

To maintain the efficiency of the coolant, daily checks for concentration with a hand refractometer is recommended. Maintaining a consistent concentration is paramount to prolonging the fluid sump life. Further tests for bacteria, fungus, pH and tramp oil contamination are available through our PROCARE Fluid Management Service and helps users to comply with current HSE legislative requirements. Please contact us for further details.

Availability & Storage

Pennine Pencool S501 is available in 1000 litre IBC's, 205 litre barrels, 25 litre drums and 5 litre plastic bottles.

Barrels of lubricant should always be stored in such a way that will prevent the ingress of water when stored in the open. Protect from frost.

Health & Safety

Please refer to the relevant Safety Data Sheet, a copy of which is freely available to all our customers.

Data represented is typical of that obtained with normal production tolerances and does not constitute a specification. The policy of Pennine Lubricants is one of continual improvement; we therefore reserve the right to change specifications without notice.



Certificate Number: 9480
ISO 9001



Pennine Lubricants Limited Company reg no. 3510091



32 Atlas Way,
Sheffield, S4 7QQ

T. 0114 285 2987
E. info@penninelubricants.co.uk
W. www.penninelubricants.co.uk