



Industrial Lubricants



Automotive Lubricants



Biodegradable Lubricants



Agricultural Lubricants



Cleaning & Maintenance



Greases & Pastes



Foodsafe Lubricants



Heritage Oils



Lubrication Equipment



Metalworking Fluids



Pencool Ultra S102

Formaldehyde Free High Performance Soluble Metalworking Fluid
Product Code: AW1

Product Description

Pennine Pencool Ultra products represent a superior range of new generation soluble metalworking fluids free from formaldehyde release biocides offering the highest levels of health, safety and environmental compliance.

Pencool Ultra S102 is a very high lubricity, versatile semi synthetic soluble metalworking fluid incorporating a unique combination of chlorine free extreme pressure additives offering excellent machining performance in moderate to arduous machining applications on tough ferrous and non-ferrous alloys. The product is suitable for use in both soft and hard water make up qualities and offers excellent defoam properties.

Applications

Pencool Ultra S102 is recommended for a variety of metal removal techniques on tough ferrous and non-ferrous materials. The product excels in applications on copper based alloys and aluminium alloys due to the incorporation of highly effective passivator chemistry which prevents staining and the formation of insoluble soaps and lacquers helping to maintain machine cleanliness. Pencool Ultra S102 is also recommended for applications such as deep hole drilling on cast iron where the highly effective lubricity package promotes maximized tool life, and the high oil content offers effective protection against corrosion compared to conventional products.

Features & Benefits

- | | | |
|--|---|---|
| • Formaldehyde release biocide free | ~ | Improved EHS profile |
| • Biostable emulsion | ~ | Extended sump life / fewer fluid changes |
| • Low foaming | ~ | Reduced anti-foam additions |
| • Outstanding lubricity performance | ~ | Improved tool life / surface finish |
| • Chlorine free | ~ | Improved environmental profile |
| • Suitable for soft & hard make up water | ~ | Low foam and soap scum formations |
| • Highly effective passivator | ~ | Non staining on copper & aluminium alloys |



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 Ultra S102

Formaldehyde Free High Performance Soluble Metalworking Fluid

Product Code: AH1

Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Amber
Appearance (emulsion)	Micro White
Specific Gravity @ 15°C	0.976
pH @ 5%	9.1
IP 287 Breakpoint Corrosion	2.0 %
Dilution Range (min ~ max)	4 ~ 10 %
Refractometer Conversion Factor	1.0
Water Hardness Range ppm CaCO3 (min ~ max)	50 ~ 450

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

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 Ultra S102 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