



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
Pastes



Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Pencool Ultra S206

Formaldehyde Free High Lubricity Soluble Metalworking Fluid
Product Code: AW6

Product Description

Pennine Pencool Ultra products represent a superior range of new generation soluble metalworking fluids designed to comply with existing and pending REACH regulations offering the highest levels of health, safety and environmental compliance.

Pencool Ultra S206 is a high performance, heavy duty semi synthetic water mix metalworking fluid primarily suited to arduous machining and grinding operations where the complex synthetic and natural ester lubricity package along with improved wetting and detergency properties produce a fluid designed to promote outstanding surface finish, improved tool life and exceptional machine cleanliness. The product incorporates a novel emulsification system producing an ultra-low foaming, long-life and biostable tight micro emulsion suitable for use in both soft and hard make up water areas.

Applications

Pencool Ultra S206 offers outstanding lubricity characteristics allowing for a wide range of operations including milling, turning, deep hole drilling, threading, reaming, tapping and grinding on difficult materials such as aluminium (including Aerospace 7000 Series), steel alloys, titanium alloys, Inconel, stainless steel and copper alloys. Pencool Ultra S206 is also suitable for applications where a low foaming product is required including high pressure through spindle coolant systems employed on modern CNC machines or where the products exceptional cleanliness is desirable.

Features & Benefits

- | | | |
|--|---|--|
| • Formaldehyde release biocide free | ~ | Improved EHS profile |
| • Biostable micro emulsion | ~ | Extended sump life / fewer fluid changes |
| • Ultra 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 |



Certificate Number: 9480
ISO 9001



Pennine Lubricants Limited Company reg no. 3510091



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Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Amber
Appearance (emulsion)	Micro White
Specific Gravity @ 15°C	0.976
pH @ 5%	9.2
IP 287 Breakpoint Corrosion	2.0 %
IP 125 Herbert Corrosion Test	N/A
Dilution Range (min ~ max)	4 ~ 12 %
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 S206 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.



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