



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
Pastes



Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Ultrasol X-NF

Boron Free Semi Synthetic Metalworking Fluid

Product Code: AWF

Product Description

Pennine Ultrasol X products represent a range of new generation soluble metalworking fluids free from boron, formaldehyde release biocides and chlorinated paraffins designed to comply with existing and pending REACH regulations offering the highest levels of health, safety and environmental compliance.

Ultrasol X-NF is a high performance semi synthetic water mix metalworking fluid that produces a translucent micro emulsion in most water qualities. The product has been specifically developed to overcome issues encountered with conventional coolants when machining copper based alloys.

The product is designed around highly advanced non-soap emulsifier technology which ensures excellent machine cleanliness and prevents instances of insoluble soap formations, sticky residues and staining of both machined parts and machine tool surfaces.

Ultrasol X-NF is free from boron, formaldehyde release biocides and chlorinated paraffin ensuring the highest levels of health, safety and environmental compliance.

Applications

Ultrasol X-NF has been specifically designed to overcome emulsion stability problems associated with copper based alloys and other sensitive non-ferrous materials. The product incorporates good levels of lubricity and is suitable for operations including turning, milling, drilling and tapping on both conventional and modern high speed CNC machines. The product is suitable for use in soft and hard water areas where foaming and soap formation may be problematic with conventional coolants.

Features & Benefits

- Translucent micro emulsion ~ Good workpiece visibility
- Highly biostable ~ Extended sump life / fewer fluid changes
- Suitable for hard & soft water areas ~ Low scum and foam formation
- Boron free ~ Reduced sticky residues & deposits
- Chlorine free ~ Improved environmental profile
- Formaldehyde release biocide free ~ Good health & safety profile



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)	Translucent
Specific Gravity @ 15°C	1.01
pH @ 5%	8.9 ~ 9.2
IP 287 Breakpoint Corrosion	2.5 %
IP 125 Herbert Corrosion Test	1.5%
Dilution Range (min ~ max)	5 ~ 10 %
Refractometer Conversion Factor	1.47
Water Hardness Range ppm CaCO3 (min ~ max)	50 ~ 400

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 Ultrasol X-NF 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 and 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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