



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
Pastes



Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Ultrasol X-915

Boron Free Heavy Duty Full Synthetic Metalworking Fluid
Product Code: AWP

Product Description

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

Pennine Ultrasol X-915 is a full synthetic, low foaming water soluble coolant designed for use in moderate to heavy-duty applications. Ultrasol X-915 forms a translucent solution when mixed with water offering excellent work piece visibility. The additive chemistry used in the product ensures excellent performance particularly at elevated temperatures whereby the heat activated polymers provide outstanding performance at the tool/work-piece interface. The boron free formulation ensures excellent detergency keeping machine tools clean and reducing sticky deposits compared with many products of its type. Ultrasol X-915 is highly resistant to bacterial attack and contains an effective fungicide additive promoting long sump life and reducing objectionable odours.

Applications

Pennine Ultrasol X-915 is recommended for use in high speed, moderate to heavy duty machining applications such as deep hole boring, heavy duty turning and milling where high stock removal rates are employed and the polymer-based technology helps to reduce friction at the cutting zone. The product is suitable for use on most ferrous and non-ferrous and is totally free from added chlorine and sulphur thus minimizing the risk of staining.

Features & Benefits

- Boron free ~ Maintains machine cleanliness
- Highly biostable ~ Extended sump life / fewer fluid changes
- Very low foaming ~ Reduced need for antifoam additions
- Low odour ~ Excellent operator acceptability
- Chlorine free ~ Reduced disposal costs



Certificate Number: 9480
ISO 9001



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Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Water White
Appearance (emulsion)	Transparent Solution
Specific Gravity @ 15°C	1.01
pH @ 5%	9.2
IP 287 Breakpoint Corrosion	2.5 %
Dilution Range (min ~ max)	4 ~ 20 %
Refractometer Conversion Factor	1.8
Water Hardness Range ppm CaCO ₃ (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 Ultrasol X-915 is available in 1000 litre IBC's, 205 litre barrels and 25 litre drums. 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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