



Industrial Lubricants



Automotive Lubricants



Biodegradable Lubricants



Agricultural Lubricants



Cleaning & Maintenance



Greases & Pastes



Foodsafe Lubricants



Heritage Oils



Lubrication Equipment



Metalworking Fluids



Ultrasol X-NT 714

Boron Free Low Oil Content Semi Synthetic Metalworking Fluid
Product Code: AXE

Product Description

Pennine Ultrasol X-NT 700 series products represent a range of new generation soluble metalworking fluids free from boron, formaldehyde release biocides, DCHA and chlorinated paraffins designed to comply with existing and pending REACH regulations offering the highest levels of health, safety and environmental compliance.

Ultrasol X-NT 714 is a low oil content multipurpose semi synthetic soluble metalworking fluid which produces a translucent emulsion when mixed with water.

Ultrasol X-NT 714 is a superior quality water soluble metalworking fluid designed to cater for the most demanding applications created by high pressure coolant delivery systems where foaming is problematic with conventional coolants.

Ultrasol X-NT 714 incorporates newly developed emulsifier technology which is compatible with both very soft and very hard make up waters resulting in significantly improved foam control and reduced instances of product instability due to soap scum formation.

Applications

Ultrasol X-NT 714 is suitable light to moderate duty machining and grinding applications on materials including cast iron, mild steels, tool steel and plastics. The product is highly effective in surface, cylindrical and centerless grinding applications where the translucent emulsion offers good workpiece visibility and effective fines flushing. Ultrasol X-NT 714 is also suitable for light to moderate duty machining applications including, turning, milling and drilling making this product an ideal rationalisation grade in machine shops where a wide variety of materials and machining techniques are employed.

Features & Benefits

- | | | |
|------------------------------------------|---|------------------------------------------|
| • Boron & formaldehyde biocide free | ~ | Improved EHS profile |
| • Biostable emulsion | ~ | Extended sump life / fewer fluid changes |
| • Low foaming | ~ | Reduced anti-foam additions |
| • Chlorine free | ~ | Improved environmental profile |
| • Suitable for soft & hard make up water | ~ | Low foam and soap scum formations |
| • Multifunctional performance | ~ | Ideal rationalisation grade |



Certificate Number: 9480
ISO 9001



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Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Straw
Appearance (emulsion)	Translucent
Specific Gravity @ 15°C	0.976
pH @ 5%	9.7
IP 287 Breakpoint Corrosion	2.5 %
IP 125 Herbert Corrosion Test	N/A
Dilution Range (min ~ max)	4 ~ 10 %
Refractometer Conversion Factor	1.6
Water Hardness Range ppm CaCO ₃ (min ~ max)	50 ~ 500

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-NT 714 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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