



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
Pastes



Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Ultrasol X-3203

Multipurpose Semi Synthetic Soluble Metalworking Fluid

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-3203 is a high-performance multipurpose semi synthetic water soluble metalworking fluid designed to offer excellent performance in moderate duty machining and grinding applications. The product forms an extremely robust micro emulsion in both soft and hard make up water qualities providing a long and trouble-free service life and offers excellent low foaming qualities along with outstanding detergency characteristics helping to keep machine tools clean.

Applications

Ultrasol X-3203 offers excellent multi metal performance and is suitable for use for moderate machining and grinding applications on materials including cast iron, tool steel, mild steel and stainless steel along with certain aluminium alloys and yellow metals. Ultrasol X-3203 is designed to offer multipurpose performance on a wide range operations and materials making the product highly suitable for machine shops where a diverse range of machinery and materials are employed.

Features & Benefits

- | | | |
|--|---|--|
| • Formaldehyde release biocide free | ~ | Improved EHS profile |
| • Boron free | ~ | Reduced sticky deposits/residues |
| • 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 |
| • Excellent tramp oil rejection | ~ | Clean running emulsion |



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	0.976
pH @ 5%	9.7
IP 287 Breakpoint Corrosion	2.5 %
IP 125 Herbert Corrosion Test	N/A
Dilution Range (min ~ max)	4 ~ 8 %
Refractometer Conversion Factor	1.4
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

Ultrasol X-3203 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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