



Industrial  
Lubricants



Automotive  
Lubricants



Biodegradable  
Lubricants



Agricultural  
Lubricants



Cleaning &  
Maintenance



Greases &  
Pastes



Foodsafe  
Lubricants



Heritage Oils



Lubrication  
Equipment



Metalworking  
Fluids



## Ultrasol MLS 877

Heavy Duty Full Synthetic Metalworking Fluid

Product Code: AWB

### Product Description

Pennine Ultrasol MLS 877 is a full synthetic, low foaming water soluble machining and grinding fluid designed for use in moderate to heavy-duty applications. Ultrasol MLS 877 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 product exhibits excellent detergency keeping machine tools clean and reducing sticky deposits compared with many products of its type. Ultrasol MLS 877 is highly resistant to bacterial attack and contains an effective fungicide additive promoting long sump life and reducing objectionable odours.

### Applications

Pennine Ultrasol MLS 877 is recommended for use in high speed, moderate to heavy duty machining and grinding applications but may also be used in more demanding applications such as deep hole boring where the polymer based technology helps to reduce friction at the cutting zone. The product is suitable for use on most steels and copper alloys and is totally free from added chlorine and sulphur thus minimizing the risk of staining.

### Features & Benefits

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

### 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	2.0 %
IP 125 Herbert Corrosion Test	No Data
Dilution Range (min ~ max)	4 ~ 20 %
Refractometer Conversion Factor	1.61
Water Hardness Range ppm CaCO <sub>3</sub> (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.



Certificate Number: 9480  
ISO 9001



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# PENNINE

## LUBRICANTS

### PRODUCT DATA

Revision Date 09/16jg  
Page 2 of 2



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### 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 MLS 877 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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