



Industrial Lubricants



Automotive Lubricants



Biodegradable Lubricants



Agricultural Lubricants



Cleaning & Maintenance



Greases & Pastes



Foodsafe Lubricants



Heritage Oils



Lubrication Equipment



Metalworking Fluids



Multisol SS

Low Oil Content Semi Synthetic Metalworking Fluid

Product Code: AGE

Product Description

Pennine Multisol SS is a low oil content high dilution semi synthetic soluble cutting oil. When mixed with water it forms a translucent blue micro emulsion that is completely biostable and has considerable advantages over conventional soluble oil emulsions. The biostable technology incorporated in Multisol SS means that it is highly resistant to bacteriological and fungal degradation giving freedom from bad smells and slimy deposits. Multisol SS is a low odour, non-phenolic, nitrite free product based on solvent refined mineral oils.

Applications

Multisol SS is recommended for general machine shop operations including CNC machines where extended tool life and a translucent product are desirable. It is suitable for use with most materials including medium tensile steels, aluminium and its alloys and yellow metals.

Features & Benefits

- Translucent emulsion ~ Good workpiece visibility
- Highly biostable ~ Extended sump life / fewer fluid changes
- Multi metal compatibility ~ Allows for grade rationalisation
- Low odour emulsion ~ Excellent operator acceptability
- Chlorine free ~ Reduced disposal costs

Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Dark Blue
Appearance (emulsion)	Translucent Blue
Specific Gravity @ 15°C	1.01
pH @ 5%	9.3
IP 287 Breakpoint Corrosion	2.5 %
IP 125 Herbert Corrosion Test	1.11%
Dilution Range (min ~ max)	4 ~ 8 %
Refractometer Conversion Factor	1.88
Water Hardness Range ppm CaCO3 (min ~ max)	50 ~ 300

Actual dilution rates may vary depending on application. Please consult with Technical Services to determine the most





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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 Multisol SS 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.