



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
Pastes



Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Unisol MP

Universal Soluble Metalworking Fluid

Product Code: AGA

Product Description

Pennine Unisol MP is a general purpose, high oil content, low odour water soluble metalworking fluid which forms a stable milky white emulsion when mixed with water. Manufactured using highly refined paraffinic mineral oils the product also incorporates additives providing improved corrosion protection and bacterial resistance compared to many products of its type. In order to provide the highest degree of operator health and safety performance the product is free of nitrite, phenol and chlorinated additives.

Applications

Pennine Unisol MP is suitable for use on a wide variety of applications including: turning, milling, drilling, sawing and surface/centreless grinding of both ferrous and non ferrous metals.

Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Dark Brown
Appearance (emulsion)	Milky White
Specific Gravity @ 15°C	0.9
pH @ 5%	9.2
IP 287 Breakpoint Corrosion	3.0 %
IP 125 Herbert Corrosion Test	2.5%
Dilution Range (min ~ max)	3 ~ 10 %
Refractometer Conversion Factor	1.0
Water Hardness Range ppm CaCO ₃ (min ~ max)	50 ~ 300

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



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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 Unisol MP 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.