



Industrial  
Lubricants



Automotive  
Lubricants



Biodegradable  
Lubricants



Agricultural  
Lubricants



Cleaning &  
Maintenance



Greases &  
Pastes



Foodsafe  
Lubricants



Heritage Oils



Lubrication  
Equipment



Metalworking  
Fluids



## Microcut EP-X

Extreme Pressure Soluble Metalworking Fluid

### Product Description

Pennine Microcut EP-X is a high oil content semi synthetic, very heavy duty, extreme pressure cutting fluid. Based on premium quality highly refined mineral oil, the product incorporates an effective combination biostable additives ensuring a long lasting emulsion which is highly resistant to bacterial and fungal degradation. Microcut EP-X contains effective surface active extreme pressure and lubricity additives giving exceptional tool life and surface finish.

### Applications

Microcut EP-X is designed for use on severe operations and difficult to cut metals and may even be used to replace neat cutting oils in certain applications. It is suitable for use with all steels and non-ferrous metals including aluminium and it`s alloys and yellow metals.

### Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Amber
Appearance (emulsion)	Milky White
Specific Gravity @ 15 <sup>0</sup> C	0.91
pH @ 5%	9.7
IP 125 Herbert Corrosion Test	2.5%
Dilution Range (min ~ max)	5 ~ 12 %
Refractometer Conversion Factor	1.02
Water Hardness Range ppm CaCO3 (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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Metalworking Fluids



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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 Microcut EP-X 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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