



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
Pastes



Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Pencool S601

Severe Duty Semi Synthetic Metalworking Fluid

Product Code: AH6

Product Description

Pennine Pencool S601 is a high performance, extreme pressure, high dilution, semi-synthetic soluble cutting fluid incorporating the latest biostable, formaldehyde release biocide free technology. It is highly resistant to bacteriological and fungal degradation, giving freedom from bad smells and slimy deposits. Pencool S600 is a low odour, nitrate free product based on solvent refined mineral oil which inhibits the staining of various non-ferrous metals including copper and aluminium, and their alloys. It uses only environmentally safe extreme pressure additives and includes special additives to prevent staining yellow metals.

Applications

Pennine Pencool S601 is primarily recommended for use in applications where very high levels of extreme pressure performance are required, such as machining and sawing of aerospace alloys, stainless steels, Inconel, titanium and other tough materials where the exceptionally high levels of lubricity help to promote significantly increased tool and blade life compared to many other heavy duty or conventional coolants. Extensive field use has found this product to give the best blade life and surface finish that can be achieved with a water miscible coolant.

Features & Benefits

- | | | |
|-------------------------------------|---|--|
| • Extreme pressure performance | ~ | Maximised blade / tool life |
| • Highly biostable | ~ | Extended sump life / fewer fluid changes |
| • Multi metal compatibility | ~ | Allows for grade rationalisation |
| • Excellent corrosion protection | ~ | Protects machine tool surfaces |
| • Formaldehyde release biocide free | ~ | Excellent EHS profile |

Typical Test Data

| Characteristic / Test | Data |
|--|--------------|
| Appearance (concentrate) | Brown Liquid |
| Appearance (emulsion) | Micro White |
| Specific Gravity @ 15°C | 0.98 |
| pH @ 5% | 9.0 |
| IP 287 Breakpoint Corrosion | 2.50 % |
| IP 125 Herbert Corrosion Test | 1.5 % |
| Dilution Range (min ~ max) | 4 ~ 12 % |
| Refractometer Conversion Factor | 1.02 |
| Water Hardness Range ppm CaCO ₃ (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.



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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 Pencool S601 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.