



Industrial  
Lubricants



Automotive  
Lubricants



Biodegradable  
Lubricants



Agricultural  
Lubricants



Cleaning &  
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Greases &  
Pastes



Foodsafe  
Lubricants



Heritage Oils



Lubrication  
Equipment



Metalworking  
Fluids



## Bioflush System Cleaner

Biocidal / Fungicidal System Cleaner

Product Code: AGF

### Product Description

Pennine Bioflush System Cleaner is a biocidal/fungicidal cleaner and disinfectant fluid for use in self-contained or centralised water-based coolant systems and machine tools using soluble cutting oils.

### Applications

Used to remove oil slime and bacterial sludge deposits inhibiting the effects of bacterial and fungal growth, including the elimination of objectionable odours.

It can be used whilst the machine is in operation and thus there is no loss of production time.

### Instructions For Use

- 1) Add 1 – 2 % Pennine Bioflush System Cleaner by volume to the existing coolant 48 hours prior to changing the coolant. The machine can be used as normal during this period. Ensure that all coolant pipes are turned on and fill the sump to the top to allow the cleaner to thoroughly sterilize all areas of the machine.

**N.B. Overdosing of System Cleaner may lead to excessive foaming and/or skin/eye irritation.**

- 2) Empty out the existing coolant taking care to “skim” off any tramp oil first. Wipe out the coolant tank removing any stubborn dirt and grime.
- 3) Remove turnings/swarf from the machine sump and bed.

If required, spray machine head / bed with Pennine Machine Cleaner, allow to soak for approximately 30 seconds before wiping down with a damp cloth or rag.

- 4) Fill the sump with water and add 0.5 - 1% Pennine Bioflush System Cleaner. Circulate for approximately 15 - 30 minutes. Where this is not practical e.g. large sumps, part fill with water and a small amount of System Cleaner and mop / wipe around the sump to remove any remaining sludge.
- 5) Sump out water / System Cleaner and wipe out remaining sludge with clean rags.



Certificate Number: 9480  
ISO 9001



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- 6) Re-fill with new clean coolant. If possible, use of an automatic mixer unit (e.g. PROCARE Push Button Mixer Unit, Dosatron or Venturi Type Mixer) is advisable. If mixing by hand, calculate the amount of coolant concentrate required and add SLOWLY into clean drums.
- 7) Circulate the new coolant through the machine and test the strength with a hand refractometer. Adjust the strength if required.
- 8) The machine is ready for use.

### Typical Test Data

Density @ 15°C	0.89
pH (3%in water)	9.6
Flash Point (°C)	180
Freezing Point (°C)	-2

### Availability

Pennine Bioflush System Cleaner is available in 25 litre drums and 5 litre plastic bottles.

### Storage

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 Health and 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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