



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
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Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Microgrind X-CG27

Full Synthetic Water Soluble Carbide Grinding Fluid

Product Code: AHEC

Product Description

Microgrind X-CG27 is a full synthetic water soluble coolant specifically developed for the grinding of cemented tungsten carbide, where problems are encountered using conventional fluids because of the cobalt binding agent used. Microgrind X-CG27 is designed to resist the leaching of cobalt into the fluid which helps to overcome health and safety hazards. The product has excellent low foam properties along with good resistance to bacterial and fungal degradation.

Microgrind X-CG27 contains the latest additive chemistry which helps to overcome crystallisation and sticky residues forming on machine tool surfaces.

Applications

Microgrind X-CG27 is recommended primarily for the grinding of tungsten carbide and other cobalt containing materials. Typical applications include surface, cylindrical and centreless grinding along with tool and cutter grinding operations.

Features & Benefits

- Transparent solution
 - Highly biostable
 - Excellent tramp oil rejection
 - Excellent corrosion protection
 - Low odour
 - Non cobalt leaching
- ~ Excellent workpiece visibility
 - ~ Long sump life
 - ~ Maintains fluid cleanliness
 - ~ Protects machines & workpieces
 - ~ Improved working environment
 - ~ Improved health & safety

Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Pale Straw
Appearance (emulsion)	Transparent Solution
Specific Gravity @ 15°C	1.1
pH @ 5%	9.2
IP 287 Breakpoint Corrosion	2.0 %
Dilution Range (min ~ max)	4 ~ 8 %
Refractometer Conversion Factor	1.2
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.



Certificate Number: 9480
ISO 9001



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PRODUCT DATA

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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 Microgrind X-CG27 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.



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