



BIOCOOL 3837 GR

BORON FREE METALWORKING FLUID

Vegetable based boron free coolant

DESCRIPTION

BIOCOOL 3837 GR is a mineral oil free, water soluble synthetic metalworking fluid concentrate recommended for applications which require severe cooling and lubricating properties. The product is designed for medium to heavy duty grinding and machining applications. Biocool 3837 GR can be used for Cast Iron, Steel, Alloy Steel, Stainless Steel metallurgies.

APPLICATIONS

BIOCOOL 3837 GR is a general purpose synthetic oil. The product forms a clear and stable solution with good pH stability and low foaming behaviour in medium and hard water conditions. The solution exhibits excellent microbiological control, with good anti corrosion properties, leaves the metal fines settled in the tank, providing clean solution in the operating zone.

Biocool 3837 GR is recommended for grinding and medium to heavy duty machining operations on ferrous metals, alloy steel, stainless steel . The product is free from formaldehyde release agents, Boron and Nitrites.

ADVANTAGES

- Low foaming product.
- Excellent air release properties.
- Very good cooling and detergency properties.
- Good separation of tramp oils.
- Very good particles settling properties.
- Improvement of tool life.

TECHNICAL INFORMATION

| TECHNICAL CHARACTERISTICS | UNITS | METHOD | BIOCOOL 3837 GR |
|---------------------------|-------|------------|-----------------|
| Color | - | | Yellow |
| Density | - | ASTM D4052 | 1.083 |
| pH | - | NFT 60.193 | 9.8 at 5 % |
| Break Point Corrosion | % | IP 287 | 3 |
| Refractometer Factor | - | | 1.32 |
| Water Hardness range | ppm | | 0-400 |

These characteristics are given only for information and can be updated over time.



RECOMMENDED CONCENTRATIONS OF USE

- Grinding: 4-6%
- Difficult grinding: 6-8%
- Machining: 6-12%

HEALTH AND SAFETY

- Formaldehyde releasers free
- Boron, nitrites and DEA free, without chlorinated additives
- Operator friendly : Good dermatological behavior and easy to use

The refractometer reading must be multiplied by the refractometer factor to arrive at the real concentration.

INSTRUCTIONS

Before first fill, thoroughly clean the installation with an antiseptic such as **CONTRAM CB3**. Drain and rinse the system with water.

If no volumetric mixing system is available, slowly pour **BIOCOOL 3837 GR** into water while stirring continuously to achieve a correct preparation of the emulsion.

To ensure the best quality of emulsion and maximize the fluid efficiency, consult the **Good Practices Handbook - Metalworking Soluble Fluids**.

Storage Conditions :

The product should be stored between 5°C and 40°C for best performance. The product should be stored away from direct sunlight and in a cool, covered and dry area.

SERVICES AND EQUIPMENT

In addition to its product ranges, MotulTech can provide tools and services for the maintenance and monitoring of your lubricants. Please contact your technical sales representative for more information.



Important Notice

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