



BIOCOOL 3740

METALWORKING FLUID FOR HARD METALS

SYNTHETIC BASE

DESCRIPTION

BIOCOOL 3740 is a mineral oil free, water soluble synthetic metalworking fluid concentrate recommended for applications which require high degree of cooling and lubricating properties. **BIOCOOL 3740** is particularly suited to grinding and machining of Cast Iron, Alloy Steel, Stainless Steel and aluminium alloys.

BIOCOOL 3740 is compliant with SAFRAN Pr-6300 specifications for aerospace aluminium alloys.

APPLICATIONS

BIOCOOL 3740 is a general purpose synthetic oil. The product forms a clear and stable solution with good pH stability and low foaming at high pressure. 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 3740 is recommended for grinding and light duty machining operations on Cast Iron, Alloy Steel, Stainless Steel, Aluminium, and yellow metals. The product is free from formaldehyde release agents, Boron and Nitrites. It is advisable to check for compatibility of the solution for stains with Aluminium & Yellow metals before use

ADVANTAGES

- Compatible with High Pressure systems
- Excellent lubrication and cooling properties.
- Low foaming product.
- Good separation of tramp oils.
- Optimization of surface roughness and finishes.

TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS	UNITS	METHOD	BIOCOOL 3740
Color	-		Yellow
Density	-	ASTM D4052	1.07
pH	-	NFT 60.193	9.1 at 5 %
Break Point Corrosion	%	IP 287	2
Refractometer Factor	-		1.5
Water Hardness range	ppm		0 - 100

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



RECOMMENDED CONCENTRATIONS OF USE

- Grinding of hard metals 3-6%
- Machining of hard metals and titanium: 5-8%
- Difficult machining of hard metals and titanium: 7-15%

HEALTH AND SAFETY

- Boric acid, nitrites and DEA free, without chlorinated, phosphorous and sulfur 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 3740** 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

Information disclosed in this technical data sheet is based on MOTUL's experience and know-how in the development and manufacture of lubricants and other chemical products according to the current state of knowledge.

Any chemical product must be used in the intended application and in accordance with the recommendations provided in its safety data sheet freely consultable via the site <https://www.quickfds.com/fr/>. The performance of our products may be influenced by a series of factors, including conditions of use, application methods, operational environment, pretreatment of components, possible external contamination, etc ... For these reasons, universal recommendation of our products is impossible. The information in the technical data sheet represents general, non-binding guidelines and is given for guidance only. No express or implied warranty is given regarding the properties of the product or its suitability for a given application.

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