

BIOCOOL 3220

DESCRIPTION

BIOCOOL 3220 is a water soluble metalworking fluid concentrate particularly manufactured for machining operations requiring excellent cooling and very good lubricating properties.

BIOCOOL 3220 is recommended for all grinding and machining operations on any ferrous or non-ferrous metals.

BIOCOOL 3220 is homologated by SAFRAN for Inconel and Titanium machining

BENEFITS

- Excellent cooling properties
- Very good lubricating properties
- Excellent stability and bio-stability in use
- Good separation of tramping oils
- Excellent protection against corrosion
- Very good sludge settling
- Operator friendly
- Cleanliness working environment

HEALTH & SAFETY

- Bactericide free, formaldehyde and formaldehyde releaser free
- No label product
- Nitrite and DEA free, without chlorinated, sulfur and phosphorous additives
- Operator friendly: Enjoyable odor and good dermatological behavior.

RECOMMENDED APPLICATIONS & DILUTIONS OF USE

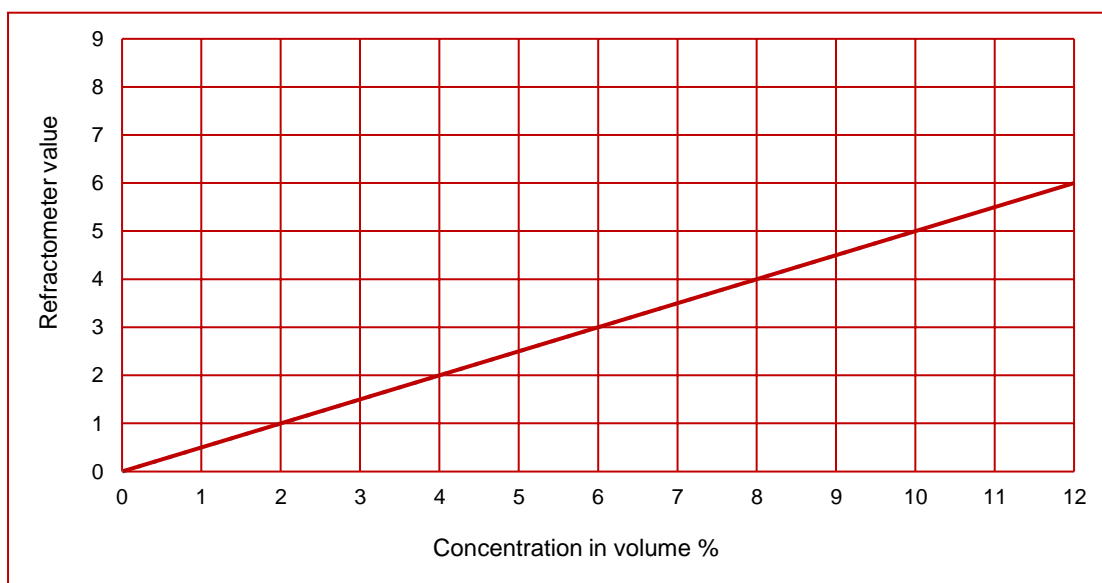
- Grinding : 3-5%
- Machining of ferrous metals: 5-8%
- Machining of hard metals: 6-12%
- Machining of non-ferrous metals: 6-8%

The refractometer reading must be multiplied by the refractometric factor to obtain the real concentration.

BIOCOOL 3220 can be used for machining of aluminium and copper alloys. However, we recommend checking the tendency of the alloy to stain before use.

TECHNICAL INFORMATION

TYPICAL CHARACTERISTICS	UNITS	METHOD	BIOCOOL 3220
Appearance			Yellow
Density at 15°C	kg/L	ISO 12.185	1.070
pH at 5%		NFT 60.193	9,6
Break Point Corrosion	%	IP 287	2
Water Hardness range recommended	°f		0 - 60
Refractometric factor			2



INSTRUCTIONS

Before first fill, thoroughly clean the installation with an antiseptic such as **Contram CB3**. Drain it and flush with water.

It is recommended pouring **BIOCOOL 3220** into water slowly 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**.

SERVICE AND EQUIPEMENT

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

RECOMMANDATIONS

All information and rules about health, safety and the environment are mentioned on the safety data sheet. It provides information about risks, safety procedures and first aid emergency rules. It clarifies all procedures to implement in the case of an accidental spillage, and for the disposal of the product and its effects on the environment.

The material safety data sheet of this product is available on www.motul.com or on www.quickfds.fr.

Our product contains natural additives which are likely to modify the colour of the concentrates without altering its performance. The specifications of our products are definite only at the time of order and are subject to our general sale and guarantee conditions. To give our customers the latest technical developments, the general characteristics of our products may vary. The safety data sheet of this product is available at www.motul.com