

# BIOCOOL 3210

Multipurpose Synthetic Fluid for Machining Operations

## SOLUTION

### DESCRIPTION

**BIOCOOL 3210** is a water soluble metalworking fluid concentrate particularly suited to answer to applications which require advanced cooling properties.

**BIOCOOL 3210** is recommended for all grinding and machining operations on ferrous metals and hard metals.

### BÉNÉFICES

- SNECMA approval on titanium (following document n°455-201-0-00 index B)
- Excellent cooling and detergency properties
- Low foaming product
- Good separation of tramp oils
- Very good particles settling properties
- Excellent bio stability and stability in use
- Operator friendly
- Cleanliness of working environment

### SÉCURITÉ

- Formaldehydes & formaldehydes releasers free
- Boric acid, nitrites and DEA free, without chlorinated, phosphorous and sulfur additives
- Operator friendly: good dermatological behavior and easy to use

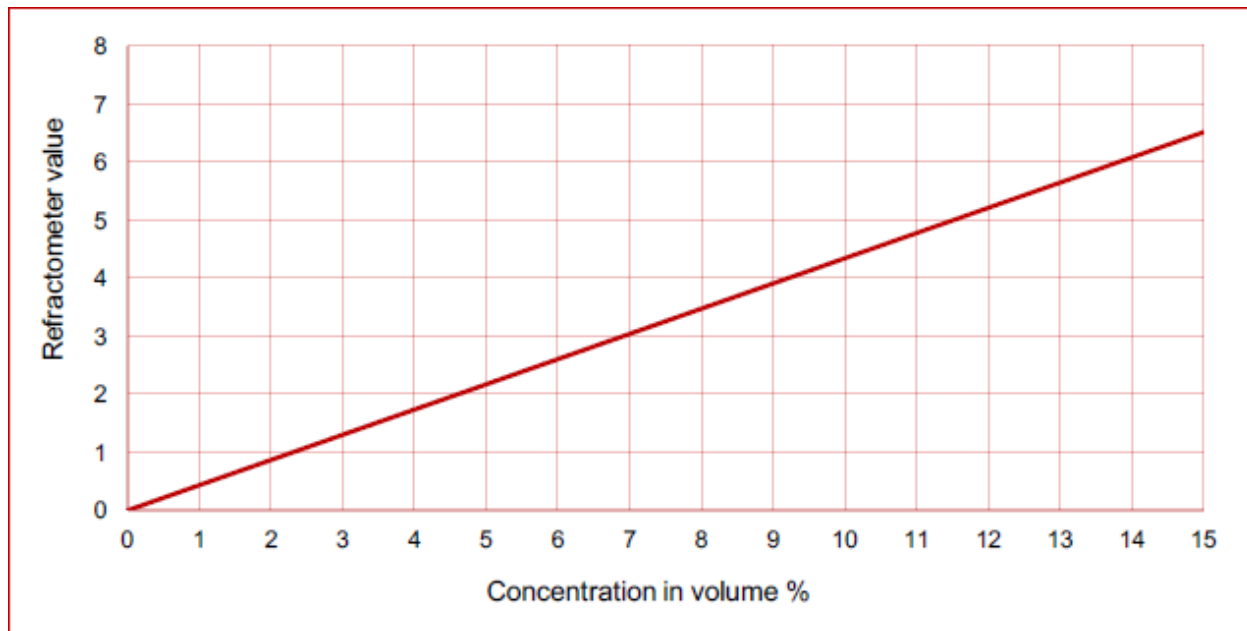
### RECOMMENDED CONCENTRATIONS OF USE

- Grinding of iron and steel: 4-6 %
- General machining of iron and steel: 5-8 %
- Machining of hard metals and titanium: 7-14 %

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

TECHNICAL INFORMATION

NAME	METHOD	BIOCOOL 3210
Couleur	Visuel	Jaune
Aspect		Liquid
Densité à 20°C (68°F)	ISO 12.185	1.062 kg/L
Refractometer Factor		2,3
Water Hardness range recommended		0-800 ppm
Break Point Corrosion	IP 287	< 3 %
pH	NFT 60.193	9,6 at 5 %



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 3210** 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**.

## 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.

## RECOMMENDATIONS

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.

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](http://www.motul.com)