



BIOCOOL 3820

BORON FREE METALWORKING FLUID
SYNTHETIC BASE

DESCRIPTION

BIOCOOL 3820 is a water soluble metalworking fluid concentrate particularly suited to answer to applications which require advanced cooling and lubricating properties.

APPLICATIONS

BIOCOOL 3820 is recommended for all grinding and machining operations on ferrous metals, hard metals, copper alloys and aluminum.

ADVANTAGES

- Excellent cooling and detergency properties
- Very good lubricity
- Low foaming product
- Good separation of tramp oils
- Very good particles settling properties
- Excellent bio stability and stability in use
- Operator friendly
- Excellent bio stability in use.

TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS	UNITS	METHOD	BIOCOOL 3820
Aspect	-		Limpide
Density	-		1,055.0
pH	-	NFT 60.193	9.6 at 5 %
Break Point Corrosion	%	IP 287	4
Refractometer Factor	-		2.3
Water Hardness range	ppm		0-600

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

RECOMMENDED CONCENTRATIONS OF USE

- Grinding: 3-5 %
- General machining of iron and steel: 5-8 %
- General machining of aluminium & copper alloys: 6-10 %

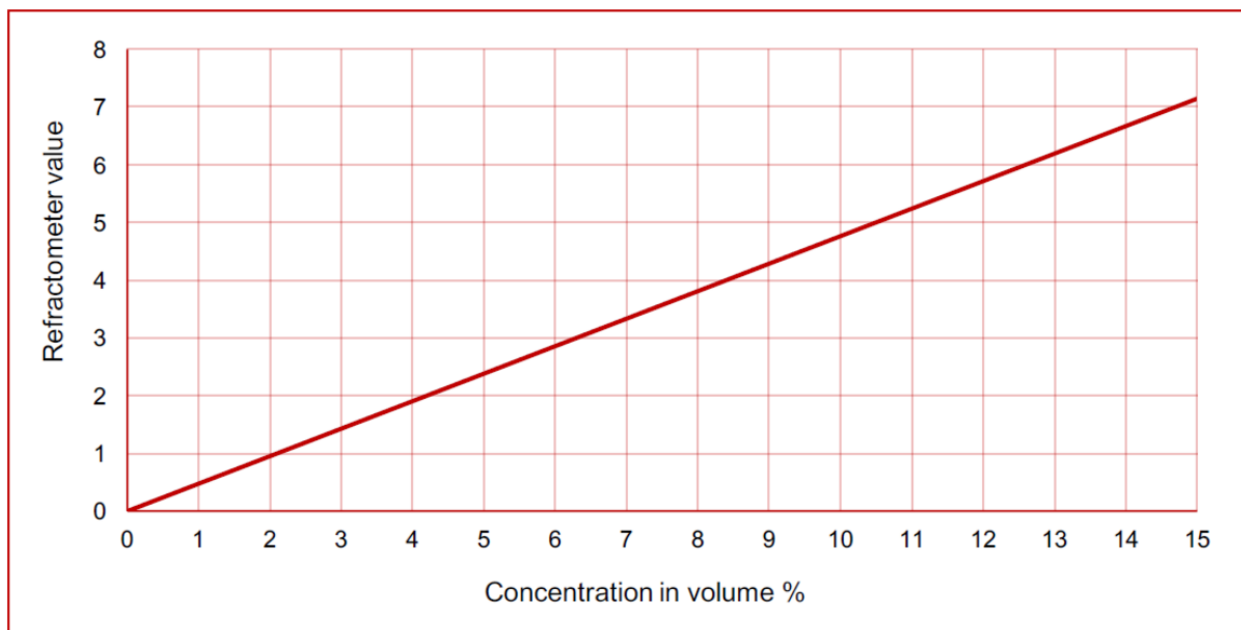


- Machining of hard metals and titanium: 8-12 %

HEALTH AND SAFETY

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

REFRACTOMETER CURVE



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 3820** 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.



Important Notice

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 safety data sheet is available on www.motul.com.

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.