

# BIOCOOL 3740

SYNTHETIC FLUID FOR MACHINING OPERATIONS

## DESCRIPTION

**BIOCOOL 3740** is a high performance synthetic soluble concentrate particularly suited to metal working which require high pressure (from 50 to 600 bar).

## APPLICATIONS

**BIOCOOL 3740** is recommended for all grinding and machining operations on hard metals.

Thanks to its specific additives, **BIOCOOL 3740** is particularly suited to machine nickel and titanium aerospace alloys.

## ADVANTAGES

- SNECMA approval on titanium (following document n °455-201-0-00 index B).
- Compatible with High Pressure systems (up to 600 bar).
- Excellent lubrication and cooling properties.
- Low foaming product.
- Good separation of tramp oils.
- Optimization of surface roughness and finishes.
- Excellent bio stability and stability in use.
- Operator friendly.
- Cleanliness of working environment.

## TECHNICAL INFORMATION

NAME	UNITS	METHOD	BIOCOOL 3740
Color	-	Visual	Yellow
Aspect	-		Liquid
Density at 20°C (68°F)	-	ISO 12.185	1.079
Refractometer Factor	-		1.4
Water Hardness range recommended	ppm		0-400
Break Point Corrosion	%	IP 287	2
pH	-	NFT 60.193	9.1 at 5 %

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

## HEALTH & SAFETY

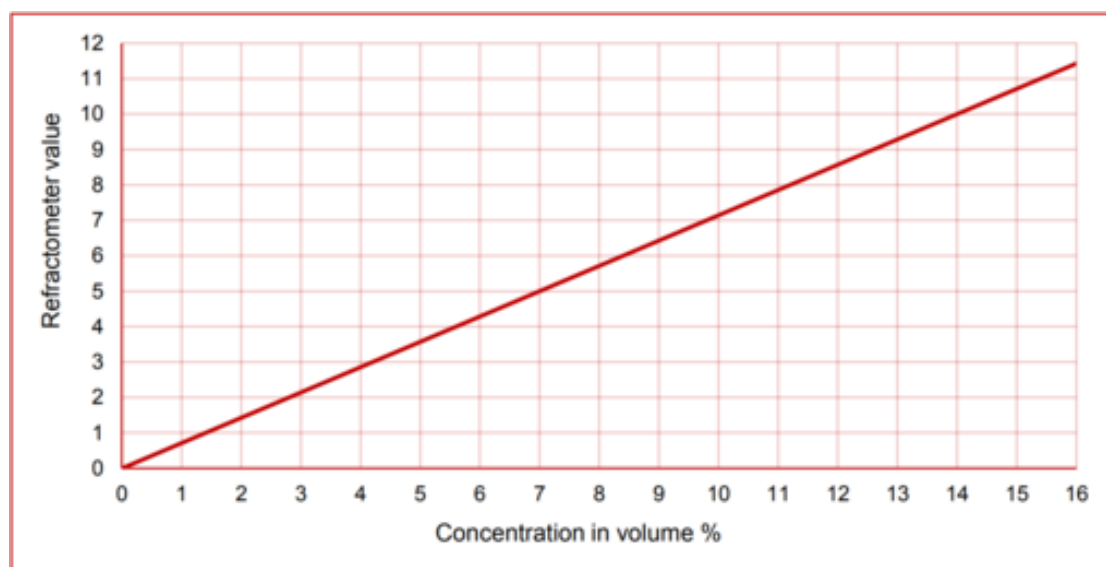
- Formaldehydes & formaldehydes releasers free
- Boric acid, nitrites and DEA free, without chlorinated, phosphorous and sulfur additives
- Operator friendly: good dermatological behavior and easy to use

## RECOMMENDED CONCENTRATIONS OF USE

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

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

## 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 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**.



## 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.