



STABILIS 9837 AL

BORON FREE EMULSION FOR ALUMINIUM MACHINING

MINERAL BASE

DESCRIPTION

STABILIS 9837 AL is a water emulsifiable metalworking fluid concentrate particularly suited to all machining processes on Standard Aluminum, Aluminum alloys, Steel and Stainless steel. The product emulsion is blended with excellent lubricity additives as well as balanced emulsifiers. **STABILIS 9837 AL** can be used for machining in both soft and hard water conditions.

APPLICATIONS

STABILIS 9837 AL is a water based metal working oil which is suitable for multi metal machining operations. The product is blended with high performance additives which provide excellent lubricity and cooling properties during severe machining applications. The product can also be used for grinding operations.

Stabilis 9837 AL is free from formaldehyde release agents, Boron, and nitrites. The product provides excellent pH stability, surface finish as well as minimizes tool wear to provide good machining parameters.

However, we recommend to check the tendency of the alloy to stain before use.

ADVANTAGES

- Good cooling and detergency properties.
- Very good lubricity and low foaming
- Good emulsion stability, even in hard waters.
- Excellent bio stability.
- Operator friendly.
- Cleanliness of working environment.

TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS	UNITS	METHOD	STABILIS 9837 AL
Color	-		Light Brown
Density	-	ASTM D4052	0.953
pH	-	NFT 60.193	9.9 at 5 %
Break Point Corrosion	%	IP 287	3
Refractometer Factor	-		1.0
Water Hardness range	ppm		100-500

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



RECOMMENDED CONCENTRATIONS OF USE

- General machining of aluminium: 6-8%
- Tapping / Threading: 8-12%
- Reaming / Sawing 8-15%
- General machining of iron and steel: 5-7%
- Difficult machining of steel: 6-10%

HEALTH AND SAFETY

- Formaldehydes and formaldehydes releasers free
- Boron, nitrites and DEA free, without chlorinated 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 **STABILIS 9837 AL** 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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