

STABILIS 9827 MG

METALWORKING FLUID FOR HEAVY DUTY MACHINING

MINERAL BASE

DESCRIPTION

STABILIS 9827 MG is a high-performance mineral oil-based water-soluble metalworking fluid that is suitable for the machining of magnesium, aluminum, and its alloys such as 2024, 6061, 6082, 7075. The product is suitable for the machining of yellow metals. It can also be used for general machining of medium-duty steel alloys as well as plain carbon steel and cast iron.

STABILIS 9827 MG is compliant with **SAFRAN Pr-6300** specification (Aluminium, TiAl, Inconel and Titanium) and meets the requirements defined in **BOEING BAC 5008** specifications (Aluminium, steel, Titanium).

APPLICATIONS

STABILIS 9827 MG provides an extremely low dissolution of magnesium and its alloys.

STABILIS 9827 MG has an advanced polar lubrication additive package that provides good product stability and improves machining performance. The product technology and additive package provides excellent anti-corrosion properties, good wetting properties, and buffering effects with a stable pH resulting in long-term emulsion stability and lowers overall operational costs.

STABILIS 9827 MG has a high water hardness stability of up to 2600 ppm (150°dH).

ADVANTAGES

- Suitable for machining of magnesium.
- Multimetal machining emulsion.
- Water hardness stability up to 2600 ppm.
- Free from MIPA & boric acid.
- pH stable product emulsion.
- Polar lubricity improves allow machining of aluminium.
- Reduced tool wear.

TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS	UNITS	METHOD	STABILIS 9827 MG
Color	-		Light Brown
Density	-	ASTM D4052	0.986
pH	-	NFT 60 187	9.50
Break Point Corrosion	%	IP 287	3
Refractometer Factor	-		1.20
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 : 7 - 12%
- Grinding : 5 - 7%

HEALTH AND SAFETY

- Free from formaldehyde-releasers, boric acid, or chlorinated paraffines.
- Good dermatological behavior and is operator-friendly.
- Clean machines and hygiene in work area

We recommend to clean our product with :

- Alkaline cleaners such as the **SAFKLEEN** range
- Solvent-based cleaners such as the **SAFCO KLEEN** range

Both options provide effective degreasing, depending on your process requirements, your cleaning equipment and part specifications.

INSTRUCTIONS

Before first fill, it is advisable to thoroughly clean the equipment with a system cleaner such as **Contram CB3**. Drain and rinse the system with water.

If no volumetric mixing system is available, it is recommended to slowly pour **STABILIS 9827 MG** into the water while stirring continuously to achieve a consistent emulsion.

To ensure the best quality of emulsion and maximize fluid efficiency, consult the Motul Tech **technical service team**.

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.

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.

Therefore, we recommend consulting an application engineer to discuss application conditions and product performance criteria before use. It is the user's responsibility to test the functional suitability of the product and to use it under appropriate safety conditions. Our products are subject to continuous improvement with the aim of improving performance or bringing them into compliance with any new and possible regulations concerning them. We reserve the right to change our product lines, our products and their manufacturing processes and any provisions of our publications at any time without notice. This technical sheet cancels and replaces all previous editions.

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