



SAFKOOL 6817 GR

Boron free Micro-Emulsion for Grinding and Machining

Boron free mineral emulsion

DESCRIPTION

SAFKOOL 6817 GR is a high performance water based metalworking fluid concentrate developed for ferrous and non ferrous alloys. The product is recommended to meet the challenges of machining as well as grinding applications for alloy steel and cast iron metallurgies. The product is recommended for single sump as well as centralized tanks. **SAFKOOL 6817 GR** can be used on both soft and hard water conditions.

APPLICATIONS

SAFKOOL 6817 GR is a semi-synthetic water based fluid dedicated for grinding and general machining of cast iron, alloy steel. The product is recommended for light duty to medium duty machining and grinding applications. The unique additive package provides stable pH, good microbiological control as well as wetting properties to provide significant cost savings as well as long sump life.

Safkool 6817 GR is free from formaldehyde release agents, boron, as well as secondary amines. The product provides clean and hygienic work environment in the shop floor.

ADVANTAGES

- Low foaming product.
- Very good cooling and detergency properties.
- Good separation of tramp oils.
- Very good particles settling properties.
- Good emulsion stability, even in hard waters.
- Excellent bio stability.

TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS	UNITS	METHOD	SAFKOOL 6817 GR
Color	-		Yellow
Density	-	ASTM D4052	0.994
pH	-	NFT 60.193	9.9 at 5 %
Break Point Corrosion	%	IP 287	2.5
Refractometer Factor	-		1.5
Water Hardness range	ppm		100-500

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



RECOMMENDED CONCENTRATIONS OF USE

- Grinding of aluminium, cast iron and steel: 5-7 %
- General machining of aluminium: 7-10 %
- General machining of iron and steel: 6-8 %

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.

We recommend to check the tendency of the alloy to stain with the diluted fluid before use on aluminium alloys.

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 **SAFKOOL 6817 GR** 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.



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