

SAFKOOL 6820 SW

Multipurpose Micro-Emulsion for Machining

DESCRIPTION

SAFKOOL 6820 SW is a water emulsifiable metalworking fluid concentrate dedicated for all machining operations that require high cooling properties.

SAFKOOL 6820 SW is recommended for the machining of ferrous and non-ferrous alloys, including standard aluminum alloys.

Thanks to its specific additives, **SAFKOOL 6820 SW** is perfectly suitable for dilution in soft water and uses under high pressure.

APPLICATIONS

SAFKOOL 6820 SW can be used for machining of most aluminium and copper alloys.

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

ADVANTAGES

- Excellent lubricating & cooling properties.
- Excellent non foaming properties.
- High pressure compatible.
- Optimization of surface finish and endurance.
- Excellent bio stability and stability in use.
- Operator friendly.
- Cleanliness of working environment

TECHNICAL INFORMATION

NAME	UNITS	METHOD	SAFKOOL 6820 SW
Color	-	Visual	Light brown
Aspect	-		Clear
Density at 20°C (68°F)	-	ISO 12.185	1.014
Refractometer Factor	-		1.5
Water Hardness range recommended	-		100-500
Break Point Corrosion	%	IP 287	2
pH	-	NFT 60.193	9.9 at 5%

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

HEALTH & SAFETY

- Boron, bactericide, formaldehydes and formaldehydes releasers free
- Nitrites, glycol ether and DEA free, without chlorinated or sulfur additives
- Operator friendly: good dermatological behavior and easy to use

RECOMMENDED CONCENTRATIONS OF USE

- General machining of iron and steel: 5-7%
- General machining of aluminium: 6-8%
- Machining of copper alloys: 4-6%
- Heavy duty machining: 8-15%
- Rectification 4-6%

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 **SAFKOOL 6820 SW** 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.