

# ATA

### SAFKOOL 6820 SW

#### METALWORKING FLUID FOR CUTTING AND GRINDING

Boron free semi synthetic coolant

#### **DESCRIPTION**

**SAFKOOL 6820 SW** is a water soluble semi synthetic metalworking fluid concentrate dedicated for general purpose machining and grinding applications. The product is designed to work in soft water conditions. The product is compatible with Alloy Steel and Cast Iron metallurgies as well as yellow metals and standard Aluminium alloys.

**SAFKOOL 6820 SW** meets the requirements of several aerospace OEMs:

- SAFRAN Pr-6300 / aluminum, Inconel and titanium

#### **APPLICATIONS**

**SAFKOOL 6820 SW** is a water soluble semi-synthetic metalworking fluid concentrate dedicated for general purpose machining operations that require high detergency and cooling properties. The product is recommended for the machining of ferrous and non-ferrous alloys, including standard aluminum alloys as well as yellow metals. SAFKOOL 6820 SW is suitable for dilution in soft water conditions. The product exhibits excellent detergency properties and settles the dust in the coolant tank, providing clean emulsion in the operation zone.

It is advisable to check the compatibility of the emulsion for stains with Aluminium and yellow metals before use.

#### **ADVANTAGES**

- Excellent lubricating & cooling properties.
- Excellent non foaming properties
- Optimization of surface finish
- Excellent emulsion bio stability
- Operator friendly.
- Cleanliness of working environment

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#### **TECHNICAL INFORMATION**

TECHNICAL CHARACTERISTICS	UNITS	METHOD	SAFKOOL 6820 SW
Color	-		Light Brown
Density	-	ASTM D4052	1.014
рН	-	NFT 60.193	9.9 at 5%
Break Point Corrosion	%	IP 287	3.5
Refractometer Factor	-		1.5
Water Hardness range	ppm		50-500

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

#### 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%

Grinding: 4-6%

#### **HEALTH AND 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

#### **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**.

#### 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.



## ATA SHEET A

#### **SERVICES AND EQUIPMENT**

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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.

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