



SAFKOOL 6220

METALWORKING FLUID FOR CUTTING AND GRINDING

Water soluble concentrate for metal machining

DESCRIPTION

SAFKOOL 6220 is a water emulsifiable metalworking fluid concentrate dedicated for general purpose machining operations that require high cooling properties. The product is recommended for the grinding and machining of ferrous and non-ferrous alloys, including standard aluminum alloys and yellow metals. The product provides good cost savings as well as machining excellence for shopfloor operations. The product is suitable for hard and very hard water conditions.

APPLICATIONS

SAFKOOL 6220 is a semi-synthetic water soluble oil, which is free from formaldehyde release agents. The product can be used for machining and grinding applications for alloy steel and cast iron, standard aluminium metallurgies as well as yellow metals. The unique additive base prevents premature discoloration of the emulsion with yellow metals. The product provides good anti corrosion properties with stable pH. The product can be used for machining operations of yellow metals. However, we recommend to check the tendency of the alloy to stain before use.

ADVANTAGES

- Excellent lubricating and cooling properties.
- Optimization of surface finish and endurance.
- Excellent bio stability and stability in use.
- Operator friendly.
- Cleanliness of working environment.

TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS	UNITS	METHOD	SAFKOOL 6220
Color	-		Yellow
Density	-	ASTM D4052	1.022
pH	-	NFT 60.193	9.4 at 5 %
Break Point Corrosion	%	IP 287	3.5
Refractometer Factor	-		1.6
Water Hardness range	ppm		200-800

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

RECOMMENDED CONCENTRATIONS OF USE

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

HEALTH AND SAFETY

- Bactericide, formaldehydes and formaldehydes releasers free
- Nitrites, glycol ether and DEA free, without chlorinated or sulfur additives
- MIPA and BIT free

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 6220** 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.

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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