SAFECUT M16

Formaldehyde-free microemulsion for all-round use

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Rev. 3

DESCRIPTION & APPLICATIONS

SAFECUT M 16 is an emulsifiable coolant that produces a translucent microemulsion in water, soft or hard forms. This product contains no sulfur, nor chlorine, sodium nitrite, phenol or silicone. In addition, SAFECUT M16 has is completely formaldehyde free.

SAFECUT M 16 is used for all operations on metal where the cooling and lubrication properties must unite. This product is suitable for working with steel and are alloys as well as for the processing of copper alloys.

SAFECUT M 16 gives excellent results:
- Automatic rotation, including operations such as sawing and drilling.
- Production units where different operations are carried out.
- Numerically controlled lathes, even for roughing forged pieces at high speed.
- Conventional lathes and milling machines.
- Grinding operations.

ADVANTAGES

- Cooling and lubricating properties that provide excellent cutting power.
- A formaldehyde free formula.
- Reinforced anti-corrosion ability.
- No spoilage at all, even after long periods of machine downtime.
- Perfect compatibility with lubricating oils, lubricating oils separate from the emulsion.
- Little sensitive to hard water, no pollution can be detected on the machines, the collection trays and the pipes.

ENVIRONMENT, HEALTH & SAFETY

Please consult also the Safety Data Sheet about how to manipulate and to stock the product as well as to learn about the first aid measurements in case of accident.

Elimination after use must be made in conformity with the local rules in force about used soluble oils disposal. When needed, Safety Data Sheet can be obtained upon request.

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USE

Storage life:

Maximum 6 months from the date of fabrication.
Protect against frost and not warmer than 40°C.

Concentration:

General metal working applications: 5 %

Severe metal working applications: 8-10 %

Preparation of the emulsion:

Always pour the concentrate into the water and mix gently (NEVER reverse the mixture). We can propose automatic mixers to produce a consistent emulsion.

Emulsion management:

Remove the free oil, metal chips or other contaminants from the surface of the emulsion bath. Measure the concentration periodically with a refractometer. Make sure the concentration does never drop under 2 % in order to maintain a proper protection against corrosion and bacteria.

Remark:

We advise to clean polluted baths with GROTANOL SR2. GROTANOL SR2 can be used depending on the contamination of the reservoir between 1% and 4% aqueous solution. (= 1 to 4 liter GROTANOL SR2 to be added per 100 liters of emulsion of the bath).
Best cleaning result is obtained after 3 to 5 days.

PROPERTIES

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA
Density at 15°C	kg/m³	NFT 60101	982
pH at 5 % in water	-	NF T 90-008	9,6
Viscosity of the concentrate at 40°C	mm²/s (cSt)	NFT 60100	120
Correction factor refractometer	coefficient	-	1,72

The average values are given for information only.