

SAFECUT M 140

SEC. AMINE AND CHLORINE FREE MICRO EMULSION
METALWORKING FLUID

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Rev. 5

DESCRIPTION & APPLICATIONS

SAFECUT M 140 is an emulsifiable fluid especially developed for hard water (> 12°Dh) to form a translucent micro-emulsion. The emulsion has excellent refrigerant and lubricating properties and is suitable for all machining operations. SAFECUT M 140 is also free of formaldehyde.

This fluid has exceptional properties for lubricating and cooling the most common machining operations.

SAFECUT M140:

- is suitable for all metals, both for aluminum and stainless steel.
- has a strong cooling capacity
- prevents foaming
- protects against corrosion from 3%
- has a translucent color

ADVANTAGES

- SAFECUT M 140 is formulated by taking account of the most severe recommendations as far as hygiene and safety are concerned. Free from diethanolamines (DEA), it avoids the formation of carcinogenic nitrosamines, by reaction with nitrite present in water.
- SAFECUT M 140 is free of chlorine, nitrites and formaldehyde.
- Reinforced anti-corrosion properties.
- Total imputrescibility, even after long periods of machine stops.
- Extremely high wetting properties which prevent the adhesion of chips on the tool.
- Good surface finish.
- Proven performance for tapping various types of metal.

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.

SAFECUT M 140

USE

Storage life:

Maximum 12 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: 7-10 %
Grinding: 3-4 %

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 ECOCLEAN. ECOCLEAN can be used depending on the contamination of the reservoir between 1% and 4% aqueous solution. (= 1 to 4 liter ECOCLEAN 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
Specific gravity at 15°C	kg/m ³	NFT 60101	967
Viscosity of the concentrate at 40°C	mm ² /s (cSt)	NFT 60100	34
pH at 5 % in water	-	NF T 90-008	9,5
Correction factor refractometer	coefficient	-	1,16

The average values are given for information only.