

SAFECUT M 170 NT

SEC. AMINE FREE MICRO-EMULSION

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Rev. 9

DESCRIPTION & APPLICATIONS

SAFECUT M 170 NT is an emulsifiable liquid which creates a translucent microemulsion in water.

SAFECUT M 170 NT contains specific additives based on the latest technologies and formaldehyde free; it has enhanced properties in corrosion, anti-foam, durability and extreme pressure.

SAFECUT M 170 NT is also recommended for use in very soft water due to its low foaming characteristics. The product gives the best results at a hardness of water as low as 1°dH.

SAFECUT M 170 NT is designed for machining the most diverse

- machining centers where the operations are very diverse.
- CNC lathes, even for blank forgings at high speed.
- cutting, including the operations of cutting and drilling.
- conventional machines, lathes, milling machines.
- machining of both the steel and its alloys as non-ferrous metals.

ADVANTAGES

- Good cooling and lubricity properties guaranteeing excellent cutting performances and good tool-life.
- Excellent anti-corrosion properties.
- Free from secondary amines, nitrites, phenol, sulphur, chlorine and silicone providing substantial savings in the costs of destroying worn-out fluids and increasing protection of the users.
- Remarkable stability, while being formaldehyde free.
- Can be used over a wide range of water hardnesses.
- Reinforced anti-foam properties.

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 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: 8-10 %
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
Viscosity of the concentrate at 40°C	mm ² /s (cSt)	NFT 60100	82
pH at 5 % in water	-	NF T 90-008	9,6
Specific gravity at 15°C	kg/m ³	NFT 60101	993
Copper corrosion	-	ASTM D 130	1b
Correction factor refractometer	coefficient	-	1,7

The average values are given for information only.