

SAFECUT M175 NT

BORON FREE MICRO-EMULSION

410131/03.20

Rev. 4

DESCRIPTION & APPLICATIONS

SAFECUT M 175 NT is an emulsifiable formaldehyde free oil that becomes a translucent microemulsion in water, soft or hard.

SAFECUT M 175 NT contains a special additive package based on the latest, completely boron-free, technologies with exceptional anticorrosion, antifoam, longevity and tolerability characteristics.

SAFECUT M 175 NT is also recommended for use in very soft water thanks to its low foaming power.

SAFECUT M 175 NT can be used for all types of metalworking.

She is characterized by her:

- polyvalence in materials to be processed: steel, stainless steel, cast iron, magnesium, yellow metal, aluminum.
- perfect surface finish
- exceptional performance at high cutting speeds
- wetting and detergent ability

ADVANTAGES

- Di-amine-free: in the composition of SAFECUT M 175 NT, the most recent safety and hygiene recommendations were taken into account. This product is free of DEA. This prevents the formation of carcinogenic nitrosamines by the reaction with nitrite (from the water). SAFECUT M 175 NT is also free of chlorine, phenol and nitrite.
- Cooling and lubricating properties that provide excellent cutting performance (less tool wear).
- Formaldehyde-free and no spoilage at all, even after long periods of machine downtime.
- Perfect compatibility with lubricating oils, that is to say that lubricating oils separate perfectly from the emulsion. We recommend that you regularly foam the reservoir with the coolant to keep SAFECUT M 175 NT translucent, which is more pleasant for the users.
- Little sensitive to hard water, no pollution can be detected on the machines, the collection trays and the pipes.
- Boron-free: Safecut M175 achieves its exceptional performance without any bore-containing additives.

SAFECUT M175 NT

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.

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.

SAFECUT M175 NT

PROPERTIES

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA
Specific gravity at 15°C	kg/m ³	NFT 60101	988
Viscosity of the concentrate at 40°C	mm ² /s (cSt)	NFT 60100	46
pH at 5 % in water	-	NF T 90-008	9,5
Copper corrosion	-	ASTM D 130	1b
Correction factor refractometer	coefficient	-	1,67
Color	-	-	Pink

The average values are given for information only.