

Cast iron	
Steel + alloys	V
Aluminium	V
Yellow metal	V
Stainless steel	V
Titanium	V

SAFECUT E215 NT

BORON -AND SEC. AMINE FREE EMULSION

410133/02.24 Rev. 5

DESCRIPTION & APPLICATIONS

SAFECUT E215 NT is an emulsifiable oil for both soft and hard water. It is a milky emulsion.

SAFECUT E215 NT includes an additive package based on the latest technologies within the metalworking and with additional focus on operator safety and environmental friendliness

Thanks to the improved formula with regard to safety during use and care for the environment, this product is free of: boron, formaldehyde, nitrite, phenol, secondary amines.

SAFECUT E215 NT does not foam, leaves no sticky deposits on workpiece and is ideal for use of turning and grinding operations (5% - solution)

SAFECUT E215 NT is a perfect partner for machining of: - Aluminium (parts made on CNC, milling, turning or for example machinery of aluminium frames like window frames) - Steel and alloys - Stainless steel – Titanium

ADVANTAGES

Cooling and lubricating properties providing excellent cutting performance (less tool wear). Leaves no stickiness / residue on finished parts:

- Suitable for soft and hard water.
- Developed to achieve its performance without boron, secondary amines, chlorine, formaldehyde or nitrites.

Safecut E215 NT allows you to use an ecologically responsible and user-friendly / safe device without sacrificing workpiece quality or tool life.

USE

Concentration:

When first time using the product or when renewing the bath, a slightly higher concentration and pH value is recommended. This is because the product will “set” during the first few days.

During use, a concentration should always be achieved:

(refractometer X correction factor)= 5 TO 9%,

where the pH value in the bath must be ≥ 9 to guarantee biostability.

SAFECUT E215 NT

Mixing:

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 5 % in order to maintain a proper protection against corrosion and bacteria.

For polluted baths we recommend adding GROTANOL SR 2 to disinfect the machine. It is also advisable to apply this treatment preventively, a few days before a longer standstill.

PROPERTIES

The average values are given for information only.

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA
Specific gravity @ 20°C	kg/m³	NFT 60101	915
Aspect of the concentrate	-	-	Amber
pH à 5 % in water	-	NF T 90-008	9.5
Correction factor refractometer	coefficient	-	1
Copper corrosion test		ASTM D 130	1b

ENVIRONMENT, HEALTH & SAFETY

Storage of the concentrate:

The guaranteed shelf life is 12 months from the date of production.

Store absolutely frost-free and not warmer than 40°C.

For guidelines regarding handling, storage, first aid in the event of accidents, etc., please refer to the safety sheet that you can obtain on request. Disposal after use must be carried out in accordance with the regulations regarding disposal of used metalworking fluids.

We are at your disposal for any necessary assistance.