

TORMA 3 FB

Semisynthetic water-miscible coolant



DESCRIPTION

It is a very high quality, watermiscible, cutting and grinding lubricant, with a new formulation, prepared according to the most recent acquisitions of modern technology to satisfy the most advanced requests of mechanical machining workshops.

In particular, an innovative, advanced and exclusive bio-stabilization system has been adopted, which makes TORMA 3 FB, at the recommended concentrations of use, highly resistant to microbiological attack.

It is particularly suitable for medium-heavy machining of steels and ferrous materials. It is totally free from:

- bactericides of any nature;
- formaldehyde and formaldehyde donors in particular;
- Boron and boric compounds;
- Chlorine and derivatives;
- secondary amines and their derivatives.

It guarantees:

- a very high degree of tolerability for operators thanks to the absence of bactericides;
- high stability of the emulsions, thanks to an innovative and exclusive formulation system;
- an excellent level of surface finish of the pieces and tool life even at low concentrations;
- reduction of fumes during processing;

- very effective anti-rust protection;
 - excellent resistance to foam formation, at normal concentrations of use, even with extremely soft water;
- The fresh emulsion is clear, translucent, opalescent and becomes more concentrated during use.

APPLICATIONS

The great versatility of use for this product is particularly interesting, for medium-heavy machining of both removal and grinding (in particular without centers), on ferrous materials, in centralized systems and in tanks of single machines, especially those with numerical control.

TORMA 3 FB is suitable for both medium-high hardness waters, to be checked before use, and relatively low hardness.

OPERATING INSTRUCTIONS

Pour slowly into the water, taking care to mix perfectly.

The concentrations of use are:

- 5% for grinding operations
- 5-7% for general processing
- > 7% for heavy machining

STORAGE

It is necessary to protect from frost.

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*

Characteristic	Method	U.m.	Value
Physical Aspect	Visivo/Visual	-	Liquido ambrato
Density at 20°C	ASTM D 7042	Kg/lt	0,994
Refractometric Index	P.O. 10.12	-	1,11
Alkaline Reserve	P.O. 10.5	ml/g	25,61
pH(5% water)	P.O. 10.11	UpH	9,44
Conductivity at 10% Distilled Water	P.O. 10.14	μS/cm	5072

*This data do not constitute specification

23/03/2021



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