

TORMA 3 FB

Semisynthetic water-miscible coolant



DESCRIPTION

It is a semi-synthetic high-grade, emulsifiable, cutting and grinding, high-quality lubricant, prepared according to the most recent acquisitions of modern technology to meet the most advanced requests from workshops for mechanical processing.

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

It is free from Chlorine, boric compounds, formaldehyde donors, biocides, secondary amines and their derivatives. It provides:

- a high degree of tolerability for operators;
- high stability of the emulsions, thanks to an innovative and exclusive formulation system;
- a high level of surface finish of the machined parts and durability of the tools and a good cutting power at the recommended use concentrations;
- reduction of the fumes being processed;
- excellent anti-rust and anti-corrosion protection;
- excellent lubrication of the guides and the sliding parts of the machine tools and good cleaning power for a high degree of cleaning;
- good miscibility and stability even with hard water;
- excellent resistance to foaming, to normal concentrations of use, even with extremely soft water.

The fresh emulsion is light, translucent, opalescent and is concentrated during use, assuming a milky appearance.

The mineral oil content is around 35%.

APPLICATIONS

It is particularly interesting for this product the great versatility of use, both for machining and grinding (in particular without centers), on ferrous materials, in centralized systems and in single machine tanks, especially those with numerical control.

Its very high anti-foaming power allows it to have excellent performance even in processing with high-pressure pumps and in all those situations in which the refrigerant is subjected to strong shocks and air blows.

Suitable for both medium-high hardness waters, to be verified before use, and relatively low hardness.

OPERATING INSTRUCTIONS

Pour slowly into the water taking care to mix perfectly.

The concentrations of use are:

- 4-6% for grinding operations
- 5-9% for generic processing
- > 9% for heavy-duty operations

STORAGE

It is necessary to protect from frost.

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*

Characteristic	Method	U.m.	Value
Physical Aspect	Visivo	-	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

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