

TORMA 2 LC PLUS PL

Semisynthetic water-miscible coolant



DESCRIPTION

It is a newly formulated high-quality semi-synthetic coolant to be used for cutting and grinding processes. Particularly, a new, advanced and exclusive biostabilization system has been adopted in order to make the product, under the recommended concentrations of use, exceptionally resistant to the microbiological attack. It is free from chlorine, boric compounds, formaldehyde donors, secondary amines and their derivatives. It guarantees:

- High level tolerability for the operators;
- Excellent stability of the emulsions thanks to an innovative and exclusive bio-stabilization system which makes the product resistant to bacterial and fungal attacks;
- High level of surface finishing of the machined pieces and greater lifetime of the tools even at low concentrations;
- Good cutting power;
- Reduction of fumes during the processes;
- Excellent anti-rust protection;
- Exceptional lubrication of the sliding parts of the machine tools;
- Perfect miscibility and stable even with hard waters;
- Great resistance to foam formation at regular concentrations of use even with particularly fresh waters.

The fresh emulsion appears clear, translucent, opaline and concentrates during use. Mineral oil content is about 15%.

APPLICATIONS

It is characterized by great versatility of use in both removal and most importantly grinding processes (particularly centerless) on ferrous materials, in centralized systems and in single machine tanks, especially numerical control ones. Moreover, thanks to the addition of a specific additive package, the product can also be used for medium-duty processes of aluminium alloys components. Its extremely high anti-foam power allows it to have great performances even during processes with high-pressure pumps and in all of those situations in which the coolant is subjected to strong concussions and air insufflations. It can be used with both high and low-hardness waters. The product is also suitable for operations on yellow metals.

OPERATING INSTRUCTIONS

Slowly pour the product into water, taking care of perfectly mixing it.

The concentrations of use are:

- 4-5 for grinding processes
- 5-7 for generic processes
- >7% for heavy-duty processes

Recommended hardness range for the emulsion in use: 0-1000 ppm CaCO₃.

STORAGE

It must be protected from frost.

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*

Characteristic	Method	U.m.	Value
Physical Appearance	Visivo/Visual	-	Liquido viscoso di colore ambrato
Density at 20°C	ASTM D 7042	Kg/lt	1,001
Refractometric Index	P.O. 10.12	-	1,85
Alkaline Reserve	P.O. 10.5	ml/g	17,45
pH(5% water)	P.O. 10.11	UpH	9,89
Conductivity at 10% Distilled Water	P.O. 10.14	µS/cm	2405

*These data do not constitute specification

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BELLINI S.p.A.
Via Don Milani, 8 - 24050- Zanica (BG)
Tel. +39035673948 – fax +39035673958
Email: mail@bellini-lubrificanti.it
www.bellini-lubrificanti.it