

## UNICOOL MIKRO E

### GENERAL FEATURES:

Unicool Mikro E is a semi-synthetic cooling agent that forms emulsion with water. It contains no substances that can be harmful to health.

### APPLICATION:

Unicool Mikro E is intended for use in typical machining processes, such as turning or milling, as well as drilling, boring, deep hole drilling, threading, forming and grinding processes. It is suitable for low- and high-pressure CNC systems. It can be used in both central systems and individual machines. Allowable stock materials:

- Cast iron
- Iron alloys and stainless steel
- Aluminium alloys
- Plastics

Light-duty machining:

Standard machining (turning, milling) 3%

Grinding 1.5-2%

Heavy-duty machining (threading, deep hole drilling) 3-4%

Stamping, forming 3-4%

Boring 4-5%

Medium-duty machining:

Standard machining (turning, milling) 5-6%

Grinding 3-5%

Heavy-duty machining (threading, deep hole drilling) 6-8%

Stamping, forming 5-6%

Boring 8-10%

Storage conditions:

The product must be stored in temperatures between +5°C and +30°C in its original packaging, protected against dust, sub-zero temperatures and overheating.



### Physical and chemical properties:

PARAMETERS	UNIT	TYPICAL VALUES
Concentrate: Kinematic viscosity at 40°C	mm <sup>2</sup> /s	1,002
Density at 20°C	g/cm <sup>3</sup>	1,01
5% emulsion in water at 15°C water hardness: Appearance of the emulsion at 20°C	-	Transparent to opalescent liquid
Corrosion protection on steel plates by Herbert's method	-	H0
pH	-	9,3

**NOTE:**  
Physicochemical parameters listed in the table are typical values. Real values are stated in quality control certificates attached to each product lot.

