

## HIGHTEC COOL MMU 3

All-purpose, water-miscible cooling lubricant for machining

### Description

HIGHTEC COOL MMU 3 is a water-miscible cooling lubricant (free of boron) containing mineral oils with selected EP/AW corrosion protection agents.

### Application

HIGHTEC COOL MMU 3 forms a milky, stable emulsion when mixed with water.  
HIGHTEC COOL MMU 3 is recommended for the machining of cast iron, steel, non-ferrous metals and partly for aluminum as well.

### Benefits

#### Characteristics

- Good emulsion stability
- Long service life
- Suitable for all applications
- Good starting ability, even with cold mixing water
- It does not contain any secondary alkanol amines and thus complies with TRGS 611
- Chlorine-free

### Recommendation

Field of application:

- Machining (drilling, turning, milling)
- Grinding

Recommended concentration to be used:

Machining 5-10%

Grinding process: 4%

### Notices

Storage:

When stored in dry, frost-free rooms and in original, unopened containers the storage period is: 9 months

Temperature range: 10-35°C

Degreasing:

HIGHTEC COOL MMU 3 can be degreased using conventional degreasing media, for example by spray cleaning or immersion cleaning with aqueous-alkaline cleaning agents.

Mixing temperature range:

15-20°C

### Typical characteristics

Property	Method	Unit	Value
Density at 20 °C	ASTM D1122	g/ml	0.932
Color of the emulsion	visuell	-	milky-opaque
Refractometer factor	-	-	0,85
pH of a 3% emulsion	-	-	8,8
Mineral oil content	-	Gewichts-%	>50
pH of a 5% emulsion	DIN 51369	-	8,9
pH of a 10% emulsion	DIN 51369	-	9,1
Corrosion protection (chip test) grade 0	DIN 51360/2	%	4

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