

## HIGHTEC COOL SMU 3

All-purpose, water-miscible cooling lubricant without mineral oils (low-foaming)

### Description

HIGHTEC COOL SMU 3 is a mineral oil-free, water-miscible cooling lubricant with an especially skin-friendly and virtually odourless formulation.  
 HIGHTEC COOL SMU 3 is free of boron, nitrite and nitrate.  
 HIGHTEC COOL SMU 3 does not contain any easily nitrosatable amines.

### Application

HIGHTEC COOL SMU 3 forms a stable, opalescent emulsion when mixed with water.  
 HIGHTEC COOL SMU 3 is recommended for the machining of grey cast iron, stainless steel, aluminium and non-ferrous metals.

### Benefits

- Very high lubricating performance
- High corrosion protection
- Long service life
- Very good dirt carrying capacity
- Low tendency to foam
- Good starting ability, even with cold mixing water
- Biodegradable
- It does not contain any secondary alkanol amines and thus complies with TRGS 611
- Chlorine-free

### Recommendation

Field of application:

- Drilling, turning, milling, sawing, grinding
- Deep-hole drilling, thread cutting
- Broaching, reaming
- Machining of automatic dispensers

Recommended concentration to be used:

General: 6-8%  
 Deep drilling, thread cutting, broaching and reaming: 7-9%

### 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

Mixing temperature range:

15-25°C

### Typical characteristics

Property	Method	Unit	Value
Density at 15.5 °C	-	g/ml	1.002
Density at 20 °C	ASTM D1122	g/ml	1.002
Kinematic viscosity KV 40	ASTM D-7042	mm <sup>2</sup> /s	46
Corrosion protection: Emulsion 3% with FLW (tap water from Flörsheim)	DIN 51 360 T.2	-	5
Refractometer factor	-	-	1
pH of a 10% emulsion	DIN 51369	-	9,2-9,4
Corrosion protection (chip test) grade 0	DIN 51360/2	%	5

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