

# innocool 440

Pioneering - Sustainable - Tried and tested





**innocool 440** The chlorine-free, universally applicable cooling lubricant for up to medium machining.

### **Properties:**

- can be mixed with water
- based on mineral oil
- free of formaldehyde releasers
- long-term resistance
- high corrosion protection, even at low concentrations
- excellent resolubility and greater machine cleanliness as a result
- resistant to nitrosamine formation
- REACH-compliant ingredients
- neutral towards plastics, as well as lacquers and coatings according to VDI 3035

## Application range:

- universally applicable cooling lubricant
- especially for machining
- suitable for steel and cast iron
- very well suited for grinding
- can be used for up to medium machining operations









**innocool 440** is protected against nitrosamine formation, i.e. no stable N-nitrosamines can be formed in the presence of secondary amines and nitrite from foreign sources, for example. According to TRGS 611, if the limit value for nitrite is exceeded, partial or complete replacement of the working emulsion is not necessary. **innocool 440** is suitable for use in both individually filled machines and centralised systems.

#### **Technical data**

	Specific value	Unit	Testing method
Density 15 °C:	990	kg/m³	DIN EN ISO 12185
Viscosity 20 °C:	200	mm²/s	ASTM D 7042
pH value:	9.5	5% in H2O	DIN 51 369
Casting chip test (1:20):	corrosion level 0		DIN 51 360/T2
Mineral oil content:	42 %		
Water hazard class:	2 concentrate		
Water hazard class:	1 emulsion (< 22.2 %)		
Correction factor:	1.1		Refractometer
Application concentra- tion:	Machining Grindingapprox. 5 - 7 per cent approx. 3 - 4 per cent		
Recommended hardness:	of the mixing water 12 to 24° dH		
Recommended storage temperature:	+5 °C to max. +40 °C.		

This information has been carefully compiled and reflects the current state of technical development. We reserve the right to make changes in the interest of progress. No liabilities of any kind can be derived from it.

### **Ordering information**

Single unit	Container form*	Order No.
20 litres	Plastic canister	20-440020
204 litres	Drum	20-440204

\*other containers available on request

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