

Product Data Sheet



Cool42i/10-1

Binol Cool 42i

Binol Cool 42i is a water miscible transparent cutting fluid of microemulsion type, based on vegetable raw materials.

Binol Cool 42i is a general purpose cutting fluid for machining operations, such as grinding, milling, sawing, turning, drilling and tapping of cast iron, steel, stainless steel, yellow metals and "hard" aluminium alloys.

Recommended concentrations:	Grinding/light duty machining	4-5%
	General machining	5-7%
	Heavy duty machining	7-10%

Physical and Chemical Data (typical)

Analysis	Method	Unit	Results
Concentrate			
Viscosity at 40°C	ISO 3104	mm ² /s	49
Viscosity at 40°C	ISO 3104	mm ² /s	103
Density at 20°C	ISO 3675	kg/m ³	1079
pH	DIN 51 369		10,2
Boiling Point	Own	°C	approx. 100
Freezing Point	Own	°C	0
Colour	Optical		yellow/brown
Smell	Nasal		faint, amine related
Emulsion (5%)			
Appearance	Optical		transparent
pH fresh mix	DIN 51 369		9,5
Refractometer index			1,5

Handling

- Storage Handling and storage between +5 to +40°C
- Packaging Drums at 200 l, plastic containers at 20 l. Bulk and IBC on request.

Maintenance of emulsion

Binol Cool 42i is a concentrated fluid that has to be blended with water to a transparent emulsion. For blending the emulsion, a diaphragm or ejector pump is recommended. When manual blending accurate, add the concentrate to water – not the way around!

Check the concentration at least twice a week with a refractometer to increase the sump life of the emulsion. If the concentration is too low, top up with fresh fluid. If too high, top up with for example 0,5-1% premixed emulsion – not only pure water. Regularly remove tramp oil from the surface of the tank, with e.g. a band skimmer.