



Product Data Sheet

Binol Cool 621, 622

Binol Cool 621 och 622 is water miscible cutting fluids of microemulsion type based on vegetable oil.

The products are recommended as general purpose cutting fluids for machining operations, such as grinding, milling, sawing, turning, drilling and tapping of cast iron, steel, stainless steel, yellow metals and aluminium alloys.

Binol Cool 622 is formulated without biocides.

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	Cool 621/622
Concentrate:			
Density at 20°C	ISO 3675	kg/m ³	1050
pH	DIN 51 369		10,0
Freezing Point	Own	°C	0
Boiling Point	Own	°C	approx. 100
Colour	Optical		yellow/brown
Smell	Nasal		faint, amine related
Emulsion (5%)			
Appearance	Optical		transparent
pH fresh mix	DIN 51 369		9,3
pH after 48 h	DIN 51 369		9,2
Refractometer index, Fresh mix			1,6
Refractometer index, after 1 week			1,0

Handling

- Storage Handling temperatures between +10 to +40°C
- Packaging Drums at 200 l, plastic containers at 20 l. Bulk and IBC on request.

Maintenance of emulsion

Binol Cool 621 and 622 is concentrated fluids that have to be blended with water to an emulsion. For blending the emulsion, a diaphragm or ejector pump is recommended. When manual blending occurs, 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.