

Naturally.

Product Data Sheet



Cool50HDV/10-1

Binol Cool 50 HDV

Binol Cool 50 HDV is a water miscible cutting fluid based on vegetable oil.

Binol Cool 50 HDV is a general purpose and heavy duty cutting fluid for machining operations, such as milling, sawing, turning, drilling and tapping of cast iron, steel, stainless steel, yellow metals and especially aluminium alloys and titanium.

Binol Cool 50 HDV is characterized by its good lubricating, antifoaming and bacterial protection properties.

Recommended concentrations:	Light duty machining	4%
	General machining	4-7%
	Heavy duty machining	7-10%

Physical and Chemical Data (typical)

Analysis	Method	Unit	Results
Concentrate			
Viscosity at 40°C	ISO 3104	mm ² /s	360
Density at 20°C	ISO 3675	kg/m ³	1040
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		white emulsion
pH fresh mix	DIN 51 369		9,3
Refractometer index			1,0

Handling

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

Maintenance of emulsion

Binol Cool 50 HDV is a concentrated fluid that has 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.

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