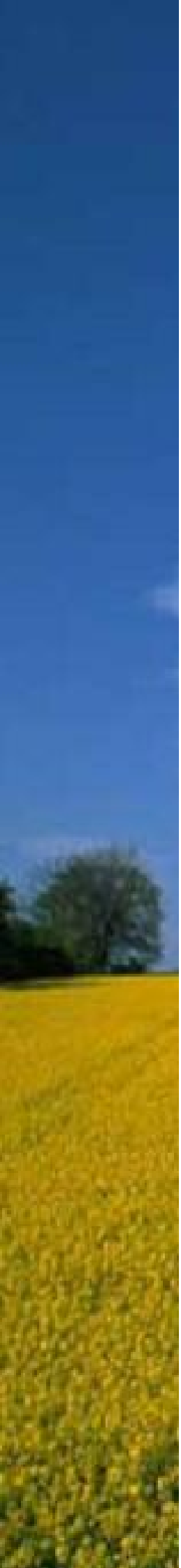

Naturally.

Product Data Sheet

Cool311/09-1

Binol Cool 311

Binol Cool 311 is a water miscible clear grinding fluid, which provides lubricity, cooling, and corrosion protection.

The product can also be used in light duty cutting operations when cooling and good chip removal properties are required.

Recommended concentrations:	**Grinding**	**4-5%**
	Light duty machining	**4-7%**

Physical and Chemical Data (typical)

Analysis	Method	Unit	Results
Concentrate Viscosity at 40°C	ISO 3104	mm^2/s	4
Viscosity at 20°C	ISO 3104	mm^2/s	7
Density at 20°C	ISO 3675	kg/m^3	1000
pH	DIN 51 369		10,1
Flash Point	SIS 15 02 02	°C	>200
Boiling Point	Own	°C	approx. 100
Freezing Point	Own	°C	0
Colour	Optical		yellow
Smell	Nasal		faint, amine related
Emulsion (4%) Appearance	Optical		transparent
pH fresh mix	DIN 51 369		9,6
pH after 48 h	DIN 51 369		9,4
Refractometer index, Fresh mix			2,2
Refractometer index, after 1 week			2,0

Handling

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

Maintenance of the fluid

Binol Cool 311 is a concentrated fluid that has to be blended with water to a transparent liquid. For blending the emulsion, a diaphragm or ejector pump is recommended. When manual blending accurse, 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 to low, top up with fresh fluid. If to 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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