

## Opticool 200IT

mineral oil based, water emulsifiable metalworking cooling fluid concentrate

OPTICOOL 200IT is a water emulsifiable fluid concentrate for general machining e.g. turning, milling, drilling and sawing of cast iron steel, high-alloy steel and aluminium.

Thanks to its specially chosen top grade emulsifier system, modern technology and excellent lubricity additives, the product is highly versatile. OPTICOOL 200IT works particularly well in both soft and hard water.

### Product profile:

- free from boric acid, amine containing
- polar lubricity improvers and tight control of the in-use pH achieve optimum results when machining aluminum

### Properties / advantages:

- good technical stability
- produces stable emulsions in make-up water from 10 °dH to 30 °dH
- good cooling and detergency properties
- a universal metalworking fluid for both freestanding machines and central systems

### Technical Data:

Concentrate		Emulsion		
Kin. viscosity at 20 °C [mm <sup>2</sup> /s]	Mineral oil [%]	pH at 5 %	Corrosion protection DIN 51360/2	Refractometer factor [%/°Brix]
180	approx. 45	9.7	at 5 % - 0 corrosion no	1.0

### Application:

medium to heavy-duty machining

### Remarks:

Correct preparation of a fresh emulsion is ensured by slowly pouring the concentrate into water while stirring continuously. Alternatively, an automatic mixing device may be used.

The recommended concentration depends on the application and the materials to be machined:

Machining of cast iron, steel and aluminum: from 5 %  
Medium to heavy-duty machining: from 8 %

The concentration of the in-use emulsion may be checked using a refractometer. The refractometer reading must be multiplied by the refractometer factor to arrive at the concentration.

When intending to machine aluminum alloys, we suggest checking in advance the tendency of the alloy to stain.

### Shelf life / storage conditions:

stable for 12 months when stored at a temperature of 5 °C to 40 °C in unopened containers

### Comments:

Minor variations in color and appearance are possible due to the raw materials chosen. However, these have no influence on the functionality of the product.

All information on safe and proper handling can be found on the MSDS or in the instructions for use.

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The technical data are representative values. All recommendations are without obligation. . We reserve the right to change the contents of this document without prior notice.