

## OPTICOOL 572IT

mineral oil-based, water emulsifiable metalworking fluid concentrate

OPTICOOL 572IT a water emulsifiable metalworking fluid concentrate for light duty machining and grinding 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 572IT works particularly well in both soft and hard water.

### Product profile:

- free from boric acid, amin containing coolant concentrate
- good corrosion protection properties

### Properties / advantages:

- low foaming emulsion in recommended make-up water
- produces stable emulsions in make-up water from 10 °dH to 30 °dH; emulsion in use is stable up to 60 °dH
- good cooling and detergency properties

### Technical data:

Concentrate		Emulsion		
Kin. viscosity at 20 °C [mm <sup>2</sup> /s]	Mineral oil content [%]	pH at 5 %	Corrosion protection DIN 51360/2	Refractometer factor [%/°Brix]
72	20	up to 9.9 (drops during use)	at 4 % – 0 no corrosion	1.5

### Application:

grinding and light 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:

Grinding: from 5 %  
Light 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.

Based on current knowledge OPTICOOL 572IT could be used for processing of most aluminium alloys. However the tendency of the alloy to stain should be checked in advance.

Where necessary, the compatibility of the emulsion with yellow metals may be improved by the addition of DELTA MS 0620.

### 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 colour and appearance are possible due to the raw materials chosen. However, these have no influences on the functionality of the product.

All information on safe and proper handling can be found on the MSDS.

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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.