



# Product Information Flyer

### DESCRIPTION

CIMTECH 500 is a synthetic metalworking fluid recommended for heavy duty machining and grinding of ferrous metals.

### APPLICATION

CIMTECH 500 can be used on cast iron, nodular iron, carbon steels, and stainless steels. It should not be used on magnesium alloys or non-ferrous materials.

Designed for machining applications such as milling, drilling, boring and reaming of steel. It can also be used in grinding operations such as surface, double disc, center-type and internal grinding. It also exhibits excellent properties as a honing fluid.

### FEATURES & BENEFITS

**GOOD LUBRICITY:** CIMTECH 500 has good lubricity for extended tool and wheel life

**EXCELLENT FOAM CONTROL:** CIMTECH 500 is very low foaming even in turbulent grinding systems

**EXCELLENT CLEANLINESS:** CIMTECH 500 rejects tramp oil to keep product clean, which extends sump life

**EXCELLENT RANCIDITY CONTROL:** Excellent fluid life - Minimizes the need for additives

**CORROSION PROTECTION:** Excellent rust protection for the work-piece and machine tool

### RECOMMENDED STARTING DILUTIONS

CIMTECH 500 is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55°F (13°C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL® Territory Manager.

Grinding	5% - 10%	(1:20 to 1:10)
Machining	5% - 10%	(1:20 to 1:10)

### CONCENTRATION

BCG Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 1.8

Multiply the scale reading obtained on your CIMCOOL® Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing. A refractometer is only recommended for use in checking the concentration on a fresh charge.

### TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Solubility in water:** 100% miscible

**Viscosity (SUS) @ 100°F (38°C):** 100

**pH Concentrate:** 9.9

**Total Chlorine/Chloride, wt%:** 0.0/0.08%

**Silicones:** None

**Appearance and Odour:** Clear/Chemical

**Weight, lb/gal, 60°F (15.6°C):** 8.8

**Flash Point /Sp.Gr./Boiling Point:** SEE MSDS

**pH Mix 5%, Typical Operating:** 9.0

**Total Sulfur, wt%:** 0

### HANDLING and STORAGE

If frozen, thaw completely at room temperature. Inside storage is recommended.

### SAFETY DATA SHEET

Available at [www.cimcool.ca](http://www.cimcool.ca)

For additional information refer to its WHMIS MSDS, website or contact CIMCOOL® Technical Services at 1-513-458-8199 in Ohio or 1-888-254-1919 in Canada.

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