



Product Information Flyer

DESCRIPTION

CIMTECH 100 is a synthetic metalworking fluid recommended for light duty machining and grinding of ferrous metals.

APPLICATION

CIMTECH 100 can be used on cast iron, nodular iron, and carbon steels. It should not be used on magnesium alloys or non-ferrous materials.

Designed for grinding operations such as surface, double disc, and Blanchard grinding. CIMTECH 100 can also be used in very light duty machining applications such as milling and turning.

FEATURES & BENEFITS

EXCELLENT FOAM CONTROL:

CIMTECH 100 is low foaming even in turbulent grinding systems.

EXCELLENT RANCIDITY CONTROL:

Rejects tramp oil to keep product clean, which extends sump life.

VISIBILITY:

Provides good part visibility. A fresh mix is transparent, doesn't smoke and is low misting.

CORROSION PROTECTION:

Excellent rust protection for the work-piece and machine tool.

RECOMMENDED STARTING DILUTIONS

CIMTECH 100 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 4.0

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): 35

pH Concentrate: 10.0

Total Chlorine/Chloride, wt%: 0.0/0.06%

Silicones: None

Appearance and Odour: Clear/Chemical

Weight, lb/gal, 60°F (15.6°C): 8.7

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

pH Mix 5%, Typical Operating: 9.1

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

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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