



Product Information Flyer

DESCRIPTION

CIMTECH 280 is a synthetic metalworking fluid recommended for moderate duty machining and grinding of ferrous metals. CIMTECH 280 can also be used to grind ceramics.

APPLICATION

CIMTECH 280 can be used on cast iron, nodular iron, carbon steels, and ceramics. It should not be used on magnesium alloys or non-ferrous materials.

CIMTECH 280 is designed for machining applications such as milling, drilling, and turning. It can also be used for grinding operations such as surface, double disc, center-type and internal grinding.

FEATURES & BENEFITS

EXCELLENT FOAM CONTROL:

CIMTECH 280 is low foaming even in turbulent grinding systems and soft water conditions.

EXCELLENT RANCIDITY CONTROL:

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

VISIBILITY:

Provides outstanding part visibility - A fresh mix is transparent - No Smoke - Low misting.

CORROSION PROTECTION:

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

RECOMMENDED STARTING DILUTIONS

CIMTECH 280 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 3.9

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: 9.7

Total Chlorine/Chloride, wt%: 0.0/0.1

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, product separates. Thaw completely at room temperature and stir thoroughly before use. 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.

Limitation of Liability: Under no circumstances, shall we or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.