



Product Information Flyer

DESCRIPTION

CIMTECH 3100-VLZ, a VALUE-LINE synthetic metalworking fluid is recommended for moderate to heavy duty machining and grinding operations.

The VALUE LINE of products offers cost effective alternatives while maintaining good overall performance characteristics.

APPLICATION

CIMTECH 3100-VLZ can be used on wrought aluminum alloys (2024, 6061, 7050 and 7075), cast aluminum alloys (380, 390), cast iron, nodular iron, carbon steels, stainless steels, titanium and other exotic alloys. It should not be used on magnesium alloys.

FEATURES & BENEFITS

CIMTECH 3100-VLZ is a unique, low pH synthetic fluid.

EXCELLENT LUBRICITY:

Provides excellent tool life and surface finish.

EXCELLENT CLEANLINESS and RANCIDITY CONTROL:

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

EXCELLENT FOAM CONTROL:

Very low foaming product, even when used with de-ionized water.

RECOMMENDED STARTING DILUTIONS

CIMTECH 3100-VLZ 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 2.6

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): 40

pH Concentrate: 7.7

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: 7.5

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.