



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, 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.

OPERATOR – FRIENDLY:

Provides excellent part visibility - A fresh mix is transparent - No Smoke - Low misting - Mild to the skin.

EXCELLENT FOAM CONTROL:

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

CIMTECH® 3100-VLZ METALWORKING FLUID

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 55F (13 C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL® District Manager.

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

CONCENTRATION:

BCG Titration, Total Alkalinity 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 concentration on a fresh charge.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Solubility in water: 100% miscible

Viscosity (SUS) @ 100°F: 40

pH Concentrate: 7.7

Total Chlorine/Chloride, wt%: 0.0/0.1%

Silicones: None

Appearance and Odor: 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.com

For additional information refer to its OSHA MSDS, website or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL® Technical Services at 1-513-458-8199.

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