



# Product Information Flyer

### DESCRIPTION

CIMFREE VG-3900H is a renewable synthetic metalworking fluid.

**THIS PRODUCT QUALIFIES AS A USDA CERTIFIED BIO-PREFERRED PRODUCT FOR FEDERAL PREFERRED PROCUREMENT**

### APPLICATION

CIMFREE VG-3900H can be used on wrought and cast aluminum alloys (particularly automotive aluminum), some yellow metals, cast iron, carbon steels, high speed steel, high alloy steels, and stainless steels.

Formulated for heavy-duty operations.

### FEATURES & BENEFITS

#### VERSATILE:

Uniquely blends synthetic technology with the superior non-ferrous lubricating capabilities of premium soluble oils, to deliver unprecedented product lubricity, cleanliness in non-ferrous metalworking operations

#### LUBRICITY:

Designed to maximize performance of high speed steel, carbide and diamond tooling applications. Formulated to reduce “built up edge” and provide lubrication against abrasive properties of high silicon aluminum. Engineered to provide lubrication in cut tapping and roll tapping operations where thread integrity is critical. Delivers consistent low surface finishes. Provides physical lubrication for machines and transfer lines.

**RECOMMENDED STARTING DILUTIONS**

CIMFREE VG-3900H 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® District Manager.

Grinding	3% - 7%	(1:30 to 1:15)
Machining	3% - 7%	(1:30 to 1:15)

**CONCENTRATION**

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

The Refractometer Factor is 1.0

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:** 280

**pH Concentrate:** NA

**Total Chlorine/Chloride, wt%:** 0.0/<50ppm

**Silicones:** Yes

**Appearance and Odor:** Hazy/Chemical

**Weight, lb/gal, 60°F (15.6 °C):** 7.9

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

**pH Mix 3%, Typical Operating:** 8.7

**Total Sulfur, wt%:** 0.4

**HANDLING and STORAGE**

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

**SAFETY DATA SHEET**

Available at [www.cimcool.com](http://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.

***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.***

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