



Product Information Flyer

DESCRIPTION

CIMFREE VG-990M is a vegetable-based metalworking fluid.

APPLICATION

CIMFREE VG-990M is recommended for a wide variety of moderate duty machining and grinding applications such as milling, drilling, turning and ID and OD grinding.

METALS

Can be used on a wide variety of materials such as carbon steels, high speed steels, cast steels, stainless steels, aluminum, copper and brass.

It should not be used on magnesium.

FEATURES & BENEFITS:

ENVIRONMENTALLY FRIENDLY

Product formula is derived from natural, renewable resources and does not contain mineral oil.

FOAM CONTROL

CIMFREE VG-990M has good foam control, even in soft water.

LUBRICITY

The product exhibits very good lubricity characteristics.

BIOLOGICAL CONTROL

CIMFREE VG-990M has very good biological protection if properly maintained.

RECOMMENDED STARTING DILUTIONS

CIMFREE VG-990M 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	5% - 10%	(1:20 to 1:10)
Machining	5% - 10%	(1:20 to 1:10)

CONCENTRATION

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

The Refractometer Factor is 1.9.

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: 500

pH Concentrate: 10.1

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

Silicones: No

Appearance and Odor: Clear /Chemical

Weight, lb/gal, 60°F (15.6 °C): 8.6

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

pH Mix 5%, Typical Operating: 9.1

Total Sulfur, wt%: 0.3

HANDLING and STORAGE

If frozen, product separates. Thaw completely at room temperature and stir. 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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