



Product Information Flyer

DESCRIPTION

CIMSTAR 700 is a semi-synthetic metalworking fluid.

APPLICATION

CIMSTAR 700 was developed for use on ferrous and most non-ferrous materials. It can be used on mild steels, stainless steels, hardened steels and most aluminum alloys. It should not be used on magnesium alloys.

For use in light to moderate duty machining and grinding applications, such as milling, drilling, cut tapping, reaming, boring and surface grinding.

FEATURES & BENEFITS

VERSATILE PRODUCT:

Good lubricity – physical and chemical lubricant agents provide good machining and grinding ability.

CORROSION PROTECTION:

The oily residue keeps machine tools and work-piece materials free of corrosion and staining.

MICROBIAL CONTROL:

CIMSTAR 700 has good rancidity control if product concentration is properly maintained.

FOAM CONTROL:

CIMSTAR 700 has good foam control, CIMSTAR 700B has additional foam control for soft water conditions.

RECOMMENDED STARTING DILUTIONS

CIMSTAR 700 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

MI Titration, Non-solvent Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 2.1

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 of a fresh charge.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Solubility in water: 100% miscible

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

Total Sulfur, wt%: 0.2

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

Silicones: No for CIMSTAR 700 / Yes for CIMSTAR 700B

Appearance and Odor: Hazy/Chemical

Weight, lb/gal, 60°F (15.6 °C): 8.5

pH Concentrate: 9.5

pH Mix 5%, Typical Operating: 8.9

HANDLING and STORAGE

If frozen, thaw completely at room temperature. 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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