



Product Information Flyer

DESCRIPTION

CIMPERIAL 1070 is a soluble oil recommended for heavy duty machining and grinding operations.

APPLICATION

CIMPERIAL 1070 is for heavy to severe duty machining and grinding operations such as milling, drilling, boring, reaming, tapping, sawing, broaching, and multiple grinding operations. It can be used on mild steels, stainless steels, hardened steels, exotics and most aluminum alloys. It should not be used on magnesium alloys.

FEATURES & BENEFITS

EXCELLENT LUBRICITY:

GRINDING: Excellent grinding ability where wheel life and part quality are vital.

MACHINING: CIMPERIAL 1070 will perform well in most machining applications, including drilling, reaming, sawing, form tapping, etc.

MICROBIAL CONTROL:

Good microbial control.

CORROSION CONTROL:

Excellent rust protection. The oily residue keeps machine tools and parts from rusting.

VERSATILE:

CIMPERIAL 1070 can be used in virtually any operation on a variety of metals.

CIMPERIAL 1070B is available where additional foam control is required in soft water

RECOMMENDED STARTING DILUTIONS

CIMPERIAL 1070 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. 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 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 of a fresh charge.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Solubility in water: 100% miscible

Viscosity (SUS) @ 100°F: 1000

pH Concentrate: NA

Total Chlorine/Chloride, wt%: 7.3/<50ppm

Silicones: YES for CIMPERIAL 1070 / YES for CIMPERIAL 1070B

Appearance and Odor: Hazy/Chemical

Weight, lb/gal, 60°F (15.6 °C): 8.5

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

pH Mix 5%, Typical Operating: 8.6

Total Sulfur, wt%: 0.1

HANDLING and STORAGE

If frozen, thaw completely at room temperature. Inside storage is recommended. CIMPERIAL 1070B version has a CONCENTRATE SHELF LIFE OF \leq 6 MONTHS.

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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