



Product Information Flyer

DESCRIPTION

CIMPERIAL 1080CFZ is a premium soluble oil metal working fluid.

APPLICATION

CIMPERIAL 1080CFZ can be used on carbon steels, high speed steel, cast steels, alloy steels, tool steel, stainless steel, cast iron, and most non-ferrous alloys. It is not recommended for use on magnesium alloys. It is designed for moderate to heavy-duty operations including turning, drilling, tapping, reaming, gear cutting, and broaching.

FEATURES & BENEFITS

VERSATILE:

CIMPERIAL 1080CFZ is a chlorine-free, general purpose formulation designed for a wide variety of metals and operations. Excellent grinding ability where part quality and finish are critical.

LUBRICITY:

CIMPERIAL 1080CFZ contains mineral oil for physical lubricity and organic lubricants for heavy-duty operations. Provides excellent tool life and surface finishes.

MICROBIAL CONTROL:

CIMPERIAL 1080CFZ maintains control of bacteria and mold, resulting in extended fluid life.

CORROSION CONTROL:

CIMPERIAL 1080CFZ provides corrosion control on ferrous and non-ferrous parts and machine components.

ECONOMICAL:

CIMPERIAL 1080CFZ minimizes requirements for storage, mixing, charging, makeup and maintenance. Residues can be removed with water or alkaline cleaner, no solvent degreasers required as with straight oils.

Note: Meets TRW HSE06 Metalworking Fluid Requirement

RECOMMENDED STARTING DILUTIONS

CIMPERIAL 1080CFZ 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

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: 1250

pH Concentrate: NA

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

Silicones: No

Appearance and Odor: Clear/Chemical

Weight, lb/gal, 60°F (15.6°C): 8.4

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

pH Mix 5%, Typical Operating: 8.9

Total Sulfur, wt%: 0.01

HANDLING AND STORAGE

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

This product is to be used within six months of its manufacture date indicated by the lot number on the container label.

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.

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.