

CIMCOOL®

METALWORKING FLUIDS

CIMPERIAL® 1080CFZ SOLUBLE OIL, METALWORKING FLUID CONCENTRATE

APPLICATIONS	<p>CIMPERIAL® 1080CFZ metalworking fluid is recommended for a wide variety of "heavy-duty" machining and grinding operations including turning, drilling, tapping, reaming, gear cutting, and broaching.</p> <p>Metals: Carbon Steels, High Speed Steel, Cast Steels, Alloy Steels, Tool Steel, Stainless Steel, Cast Iron, Aluminum, Bronze, Brass, Copper</p> <p>Duty Range: For moderate to heavy-duty operations</p>
FEATURES & BENEFITS	<p>CIMPERIAL® 1080CFZ is a chlorine-free, general-purpose formulation designed for a wide variety of metals and operations.</p> <p>EXCELLENT BIOLOGICAL CONTROL - Maintains control of bacteria and mold, resulting in extended fluid life</p> <p>EXCELLENT LUBRICITY - Contains mineral oil for physical lubricity - Also contains organic lubricants for heavy-duty operations - Provides excellent tool life and surface finishes</p> <p>EXCELLENT CORROSION CONTROL – Controls ferrous and non-ferrous corrosion on parts and machine components</p> <p>OPERATOR FRIENDLY - Mild to skin - Easy to mix - Low foaming - Pleasant odor</p> <p>MACHINE FRIENDLY - Cleaner machines and work areas create a more pleasant work environment - Residue can be removed with water or alkaline cleaners – No solvent degreasers required as with straight oils</p> <p>ECONOMICAL - Wide application on metals and operations - CIMPERIAL® 1080CFZ minimizes requirements for storage, mixing, charging, makeup and maintenance</p> <p>Note: Meets TRW HSE06 Metalworking Fluid Requirement</p>

<p>RECOMMENDED STARTING DILUTIONS</p>	<p>FOR INDUSTRIAL USE ONLY Recommended Starting Dilution: 5% (1:20) Typical Operating Range: 5% (1:20) to 10% (1:10) For concentrations outside this range contact CIMCOOL® Technical Service at 513-458-8199.</p> <p>CIMPERIAL® 1080CFZ is to be mixed with water for use (add concentrate to water).</p> <p>Add no other substances to the concentrate or mix unless approved by CIMCOOL® Technical Services. Not recommended for use with magnesium or alloyed magnesium.</p> <p>For concentration analysis, use the MI Titration Procedure, Non-Solvent Titration Procedure, Total Alkalinity Titration Procedure, or Refractometer.</p>
<p>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</p>	<p>Physical state: Liquid Appearance and odor: Clear / Chemical Colors available: Undyed Solubility in water: 100% Miscible Weight, lb/gal, 60°F (15.6°C): 8.35 Specific gravity, (H₂O = 1): 1.0 Boiling point, °F (°C): Not Applicable Flash point, COC, °F (°C): 290 (143) Fire point, COC, °F (°C): 310 (154) Freezing point (or pour point), °F, (°C): 30 (-1) If frozen, thaw completely at room temperature. pH, concentrate: Not Applicable pH, 5.0% mix, typical operating conditions: 8.9 Total chlorine/chloride, wt%, calculated: 0.00/< 50 ppm Total sulfur, wt%, calculated: 0.014 Silicones: None Dicyclohexylamine: None</p>
<p>PACKAGING</p>	<p>Available in 5-gallon pails, 55-gallon drums, and bulk containers.</p>
<p>REFRACTOMETER FACTOR = 1.0 Multiply the scale reading obtained on your CIMCOOL® Metalworking Fluid or other acceptable refractometer by the Refractometer Factor to obtain the mix concentration in percent.</p> <p>NOTE: Calibrate the refractometer so that it reads 0.0 with water, before testing the sample mix. Remove gross contaminants from the sample mix before testing.</p> <p>This product to be used within six months of its manufacture date indicated by the lot number on the container label.</p>	
<p>For additional information concerning CIMPERIAL 1080CFZ, refer to its OSHA MSDS or contact CIMCOOL® Technical Services at 1-513-458-8199. Reprints/Updates of this Product Information Flyer (PIF) can be found on our web site, www.cimcool.com or from your Milacron representative.</p> <p>Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet. Consumable Products Division/ Milacron Marketing Company Cincinnati, Ohio 45209</p> <p>PC-9948 8/10/06</p>	

