

CIMCOOL®

METALWORKING FLUIDS

CIMTECH® 510Z

SYNTHETIC, METALWORKING FLUID CONCENTRATE

APPLICATIONS	<p>CIMTECH® 510Z is recommended for machining and grinding operations of ferrous materials, where a heavy-duty synthetic fluid is desired. It is an excellent choice for central system applications.</p> <p>Metals: Cast Iron, Nodular Iron, Carbon Steels, High Speed Steels, High Alloy Steels Stainless Steels, Tool Steels, Titanium, Other Exotic Metals; It is not recommended for use with aluminum alloys.</p> <p>Duty Range: For moderate to heavy-duty operations</p>
FEATURES & BENEFITS	<p>HEAVY-DUTY SYNTHETIC - All the advantages of a synthetic fluid, with the capabilities of a heavy-duty product.</p> <p>VERSATILE, MULTI-PURPOSE PRODUCT - Capable of performing both heavy-duty grinding and machining operations, and some stamping and drawing operations</p> <p>NEW TECHNOLOGY FORMULATION - Product contains no ethanalamines</p> <p>EXCEPTIONALLY GOOD BACTERIA AND MOLD CONTROL - No offensive odors caused by excessive bacteria - Long fluid life, minimizes concentrate usage and downtime</p> <p>GOOD FERROUS CORROSION CONTROL - Protects cast iron and steel parts, as well as machine components from rust</p> <p>CLEANLINESS - No oily mist or smoke - Leaves a soft, non-tacky residue that is easily rinsed off - Mild to use when used as recommended - Outstanding cleaning action – Keeps machines clean</p> <p>ECONOMICAL - Low carry-off on parts and chips result in lower concentrate usage compared to soluble oil and semisynthetic metalworking fluids - Can be used in any type of filter system - The product can be recycled</p>

RECOMMENDED STARTING DILUTIONS	<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>CIMTECH® 510Z 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 Total Alkalinity Titration Procedure, BCG Titration Procedure, CIMCHEK™ Test Strip, or Refractometer.</p>
TYPICAL PHYSICAL AND CHEMICAL PROPERTIES	<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): 8.9 Specific gravity, (H₂O = 1): 1.06 Boiling point, °F (°C): 212 (100) Flash point, COC, °F (°C): None, Self Extinguishing Fire point, COC, °F (°C): None, Self Extinguishing Freezing point, °F, (°C): 18 (-8) If frozen, thaw completely at room temperature. pH, concentrate: 10.0 pH, 5.0% mix, typical operating conditions: 9.0 Total chlorine/chloride, wt%, calculated: 0.00/0.1178 Total sulfur, wt%, calculated: 0.00 Silicones: None Dicyclohexylamine: None</p>
PACKAGING	Available in 5-gallon pails, 55-gallon drums, and bulk containers.
<p>REFRACTOMETER FACTOR = 2.0 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>For additional information concerning CIMTECH® 510Z, 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 style="text-align: center;">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-9814 8/15/07</p>	

