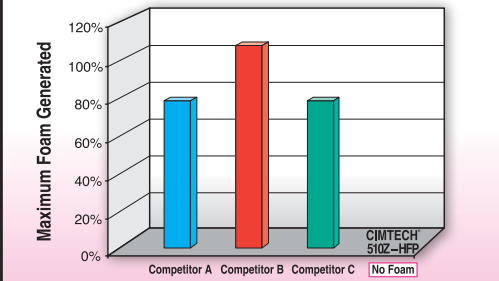


# CIMTECH<sup>®</sup> 510Z-HFP with FACT<sup>™</sup>

## Synthetic, Metalworking Fluid Concentrate for High Fluid Pressure Applications

<b>APPLICATIONS</b>	<p><b>CIMTECH<sup>®</sup> 510Z-HFP</b> is recommended for High Fluid Pressure and High Volume Flow Applications where minimization of foam is critical for part quality and machine operations. It can be used 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><b>Metals:</b> 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><b>Duty Range:</b> For moderate to heavy-duty operations</p>										
<b>FEATURES &amp; BENEFITS</b>	<p><b>CIMCOOL<sup>®</sup> – HFP Fluids</b> <small>with FACT<sup>™</sup></small> provide superior foam control through the combination of product design, raw material selection and innovative antifoam technology. These fluids are the result of years of experience that have identified creative methods to prevent, control and reduce foam, even when fluids are used in high pressure delivery systems. This expertise is only available in <b>CIMCOOL<sup>®</sup> – HFP Fluids</b> <small>with FACT<sup>™</sup></small>.</p> <div data-bbox="695 993 1190 1377"><p><b>High Pressure Foam Test</b> 600 psi @ 5% in 50 ppm water <b>CIMTECH<sup>®</sup> 510Z – HFP</b></p><table border="1"><thead><tr><th>Product</th><th>Maximum Foam Generated</th></tr></thead><tbody><tr><td>Competitor A</td><td>~80%</td></tr><tr><td>Competitor B</td><td>~110%</td></tr><tr><td>Competitor C</td><td>~80%</td></tr><tr><td>CIMTECH 510Z-HFP</td><td>0% (No Foam)</td></tr></tbody></table></div> <p><b>VERSATILE, MULTI-PURPOSE PRODUCT</b> – Capable of performing both heavy-duty grinding and machining operations, and some stamping and drawing operations.</p> <p><b>NEW TECHNOLOGY FORMULATION</b> – Product contains no ethanolamines</p> <p><b>EXCEPTIONALLY GOOD BACTERIA AND MOLD CONTROL</b> – No offensive odors caused by bacteria-Long fluid life, minimizes concentrate usage and down time</p> <p><b>GOOD FERROUS CORROSION CONTROL</b> – Protects cast iron and steel parts, as well as machine components from rust.</p> <p><b>CLEANLINESS</b> – Rejects oil, no oily mist or smoke-Leaves a soft, non-tacky residue that is easily rinsed off-Mild to skin when used as recommended-Outstanding cleaning action-Keeps machines clean</p> <p><b>ECONOMICAL</b> – Low carry-off on parts and chips result in lower concentrate usage compared to soluble oil and semi-synthetic metalworking fluids-Can be used in any type of filter system-The product can be recycled</p>	Product	Maximum Foam Generated	Competitor A	~80%	Competitor B	~110%	Competitor C	~80%	CIMTECH 510Z-HFP	0% (No Foam)
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## Synthetic, Metalworking Fluid Concentrate

<p><b>RECOMMENDED STARTING DILUTIONS</b></p>	<p><b>FOR INDUSTRIAL USE ONLY</b>  <b>Recommended Starting Dilution: 5% (1:20)</b>  <b>Typical Operating Range: 5% (1:20) to 10% (1:10)</b>  <b>For concentrations outside this range contact CIMCOOL<sup>®</sup> Technical Service at 513-458-8199.</b></p> <p><b>CIMTECH<sup>®</sup> 510Z-HFP</b> is to be mixed with water for use (add concentrate to water).</p> <p>Add no other substances to the concentrate mix unless approved by CIMCOOL<sup>®</sup> Technical Services. Not recommended for use with magnesium or alloyed magnesium.</p> <p><b>For concentration analysis, use</b> the MI Titration Procedure, Non-Solvent Titration Procedure, Total Alkalinity Titration Procedure, CIMCHEK<sup>™</sup> Test Strip, or Refractometer.</p>
<p><b>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</b></p>	<p><b>Physical state:</b> Liquid  <b>Appearance and odor:</b> Clear/Chemical  <b>Colors available:</b> Undyed  <b>Solubility in water:</b> 100% Miscible  <b>Weight, lb/gal, 60° F (15.6° C):</b> 8.9  <b>Specific gravity, H<sub>2</sub>O = 1):</b> 1.06  <b>Boiling point, °F (°C):</b> 212 (100)  <b>Flash point, COC, °F (°C):</b> None, Self extinguishing  <b>Fire point COC, °F (°C):</b> None, Self extinguishing  <b>Freezing point, °F (°C):</b> 18 (-8)          If frozen, thaw completely at room temperature.  <b>pH, concentrate:</b> 10.0  <b>pH, 5.0% mix, typical operating conditions:</b> 9.0  <b>Total chlorine/chloride, wt%, calculated:</b> 0.00/0.12  <b>Total sulfur, wt%, calculated:</b> 0.002  <b>Dicyclohexylamine:</b> None  <b>Triazine:</b> None</p>
<p><b>PACKAGING</b></p>	<p>Available in 5-gallon pails, 55-gallon drums, and bulk containers.</p>
<p><b>REFRACTOMETER FACTOR = 2.0</b> Multiply the scale reading obtained on your CIMCOOL<sup>®</sup> Metalworking Fluid or other acceptable refractometer by the <b>Refractometer Factor</b> to obtain the mix concentration in percent.</p> <p><b>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.</b></p>	
<p>For additional information concerning CIMTECH<sup>®</sup> 510Z-HFP, refer to its OSHA MSDS or contact CIMCOOL<sup>®</sup> Technical Services at 1-513-458-8199. Reprints/Updates of this Product Information Flyer (PIF) can be found on our web site, <a href="http://WWW.CIMCOOL.COM">WWW.CIMCOOL.COM</a> or from your Milacron representative.</p> <p>Minor formulation changes or normal variations in the manufacture of this product may cause slight variations in the data presented on this sheet.          Consumable Products Division/Milacron Marketing Company          Cincinnati, Ohio 45209</p> <p>ISO Certified Company          9001/14001</p> <p>PC-HFP-105</p> 