

CIMCOOL®

METALWORKING FLUIDS

CIMPERIAL® 1070Z

PREMIUM SOLUBLE OIL, METALWORKING FLUID CONCENTRATE

APPLICATIONS	<p>CIMPERIAL® 1070Z metalworking fluid is recommended for a wide variety of heavy-duty machining and grinding operations including turning, drilling, tapping, reaming, gear cutting, broaching, centerless grinding, I.D. grinding, etc.</p> <p>CIMPERIAL® 1070Z provides “One fluid - All operations” capability in metalworking plants. It is an excellent product for both individual machine sumps and central system applications.</p> <p>Metals: Carbon Steels, High Speed Steel, Cast Steels, Alloy Steels, Tool Steel, Stainless Steel, Cast Iron, Aluminum, Bronze, Brass, Copper Metals</p> <p>Duty Range: For moderate to heavy-duty operations</p>
FEATURES & BENEFITS	<p>A MULTI-PURPOSE PRODUCT - CIMPERIAL® 1070Z is a versatile product used on a wide variety of operations to provide one fluid to meet most metalworking requirements</p> <p>EXCELLENT BIOLOGICAL CONTROL - Maintains control of bacteria and mold, resulting in extended fluid life</p> <p>EXCELLENT LUBRICITY - Contains mineral oil to provide physical lubricity, and a chlorinated extreme pressure additive to generate lubricity for heavy-duty operations - CIMPERIAL® 1070Z provides excellent tool life and surface finish</p> <p>OPERATOR FRIENDLY - Mild to skin - Easy to mix - Low foaming - Pleasant odor</p> <p>MACHINE FRIENDLY - Compatible with machine components and materials - Liquid residue keeps machine tool components free moving</p> <p>EXCELLENT CORROSION CONTROL - Rust inhibitors combined with the physical protection of oil prevent in-process corrosion on parts and machine components</p> <p>ECONOMICAL - “One fluid - All operations” CIMPERIAL® 1070Z minimizes requirements for storage, mixing, charging, make-up, and maintenance - Its long sump life and minimal make-up rates result in an economical product for plants of all sizes</p> <p>“HASSLE-FREE” - The combination of effective performance and low maintenance contributes to higher metalworking productivity</p>

RECOMMENDED STARTING DILUTIONS	<p>FOR INDUSTRIAL USE ONLY Use between 5.0% (1:20) and 10.0% (1:10) for machining and grinding ferrous and nonferrous metals.</p> <p>CIMPERIAL® 1070Z 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, CIMCHEK™ Test Strip, Total Alkalinity Titration Procedure, or Refractometer.</p>
TYPICAL PHYSICAL AND CHEMICAL PROPERTIES	<p>Physical state: Liquid Appearance and odor: Hazy / Chemical Colors available: Undyed Solubility in water: 100% Miscible Weight, lb/gal, 60°F (15.6°C): 8.2 Specific gravity, (H₂O = 1): 0.99 Boiling point, °F (°C): NA Flash point, COC, °F (°C): 315 (157) Fire point, COC, °F (°C): 335 (168) Freezing point (or pour point), °F, (°C): 30 (-1) If frozen, thaw completely at room temperature. pH, concentrate: NA pH, 5.0% mix, typical operating conditions: 8.8 Total chlorine/chloride, wt%, calculated: 7.3 / < 50 ppm Total sulfur, wt%, calculated: 0.0 Silicones: Yes</p>
PACKAGING	Available in 5-gallon pails, 55-gallon drums, and bulk containers.
<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>For additional information concerning CIMPERIAL® 1070Z, refer to its OSHA MSDS or contact CIMCOOL® Technical Services at 1-513-458-8199.</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>	
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