

CIMCOOL[®]

METALWORKING FLUIDS

CIMPERIAL[®] 1070

PREMIUM SOLUBLE OIL, METALWORKING FLUID CONCENTRATE

APPLICATIONS	<p>CIMPERIAL[®] 1070 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[®] 1070 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[®] 1070 is a versatile product used on a wide variety of operations to provide one fluid to meet most metalworking requirements</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[®] 1070 provides excellent tool life and surface finish</p> <p>EXCELLENT BIOLOGICAL CONTROL - Maintains control of bacteria and mold, resulting in extended fluid life</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[®] 1070 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> <p>Note: CIMPERIAL[®] 1070B is a low foaming version for high pressure applications</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® 1070 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: Blue, Undyed Solubility in water: 100% Miscible Weight, lb/gal, 60°F (15.6°C): 8.5 Specific gravity, (H₂O = 1): 1.02 Boiling point, °F (°C): NA Flash point, COC, °F (°C): 385 (196) Fire point, COC, °F (°C): 405 (207) 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: 8.6 Total chlorine/chloride, wt%, calculated: 7.4 / < 50 ppm Total sulfur, wt%, calculated: 0.080 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® 1070, refer to its OSHA MSDS or contact CIMCOOL® Technical Services at 1-513-458-8199.</p>	
<p><small>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.</small></p> <p style="text-align: center;"><small>Milacron Marketing Company LLC Cincinnati, Ohio 45209</small></p>	
PC-3101	03/01/2010

