

CIMCOOL®

METALWORKING FLUIDS

CIMSTAR® 40

SEMISYNTHETIC, METALWORKING FLUID CONCENTRATE

APPLICATIONS	<p>CIMSTAR® 40 is designed to be used in machines and operations where long fluid life is needed, such as in large individual machine or central system reservoirs. It is recommended for moderate-duty machining and grinding of ferrous metals, and some nonferrous metals.</p> <p>Metals: Cast Iron, Nodular Iron, Carbon Steels, High Speed Steel, High Alloy Steels, Stainless Steels, Aluminum</p> <p>Duty Range: For light to moderate-duty operations</p>
FEATURES & BENEFITS	<p>CIMSTAR® 40 is a clear, water soluble, semisynthetic product.</p> <p>Advantages - Exceptional rancidity control - Effective lubrication and cooling - Good settling properties - No nitrite</p> <p>Effective Lubrication and Cooling - A combination of chemical lubricants and wetting agents provide good machining and grinding properties - Keeps parts and tools cool - Extends tool life - Allows high speeds and feeds that increase production</p> <p>Stable - Can be used in individual machines as well as central system applications</p> <p>Good Settling Properties - Efficiently settles chips and grit - Produces a good cake on positive filters which removes recirculating fines and also lowers media usage - Parts and machines stay clean</p> <p>Excellent Corrosion Control - Organic and inorganic corrosion inhibitors protect machines and parts from rust</p> <p>Environmentally Friendly - Is easy to maintain and control - It is waste treatable - It can also be recycled for reuse</p> <p>Note: CIMSTAR® 40B has the same performance characteristics as CIMSTAR® 40 but in addition, is designed to be low foaming in soft water (50 ppm hardness)</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>CIMSTAR® 40 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, CIMCHEK™ Test Strip, or Refractometer.</p>
TYPICAL PHYSICAL AND CHEMICAL PROPERTIES	<p>Physical state: Liquid Appearance and odor: Clear, yellow/chemical Colors available: Undyed, pink, blue Solubility in water: 100% Miscible Weight, lb/gal, 60°F (15.6°C): 8.83 Specific gravity, (H₂O = 1): 1.06 Boiling point, °F (°C): 210 (99) Flash point, COC, °F (°C): None, self extinguishing Fire point, COC, °F (°C): NA Extinguishing media: NA Unusual fire & explosion hazards: None Freezing point (or pour point), °F, (°C): 32 (0) If frozen product separates. Thaw completely and stir thoroughly before using. pH, concentrate: 10.2 pH, 5.0% mix, typical operating conditions: 9.0 Total chlorine/chloride, wt%, calculated: 0.00/< 50 ppm Total sulfur, wt%, calculated: 0.01 Silicones: No for CIMSTAR® 40 / Yes for CIMSTAR® 40B</p>
PACKAGING	Available in 5-gallon pails, 55-gallon drums, and bulk containers.
<p>REFRACTOMETER FACTOR = 3.1 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 CIMSTAR® 40, 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.</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. Milacron Marketing Company LLC Cincinnati, Ohio 45209</small></p>	
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