

CIMCOOL®

METALWORKING FLUIDS

CimVantage® CSS-NR38 SEMISYNTHETIC, METALWORKING FLUID CONCENTRATE

APPLICATIONS	<p>CimVantage® CSS-NR38 is designed for general machining and grinding of ferrous and non-ferrous parts. It is also an excellent product for general machining of most aluminum parts.</p> <p>Metals: Aluminum, Titanium, Exotic Alloys, Cast Iron, Carbon Steels, High Speed Steel, High Alloy Steels, Stainless Steels</p> <p>Duty Range: For moderate-duty operations</p>
FEATURES & BENEFITS	<p>CimVantage® CSS-NR38 is a low-cost, general-purpose machining and grinding fluid, which can be used on a variety of materials and operations.</p> <p>EXCELLENT LUBRICITY - Designed for operations such as reaming and tapping - Excellent tool life and surface finish - Designed to maximize performance of high speed steel, carbide and diamond tooling applications</p> <p>EXCELLENT FOAM CONTROL - Very low foaming, without the use of silicone antifoam</p> <p>EXCELLENT CLEANLINESS - Provides clean parts and keeps machines clean</p> <p>FORGIVING RESIDUE - The product is easily rinsed off parts for post-machining operations</p> <p>EXCELLENT MICROBIAL CONTROL - Provides long sump life</p> <p>EXCELLENT CORROSION CONTROL - Excellent corrosion control on ferrous and non-ferrous applications - CimVantage® CSS-NR38 also has good bi-metallic corrosion control</p> <p>SUPERIOR MATERIAL AND APPLICATION COMPATIBILITY - Compatible with many titanium alloys and other exotic alloys - Can be used on ferrous and non-ferrous metals where one product is needed for a variety of jobs</p> <p>OPERATOR-FRIENDLY - No smoke - No slippery film on parts, machinery or floor - Low misting - Mild to the skin</p>

RECOMMENDED STARTING DILUTIONS	<p>FOR INDUSTRIAL USE ONLY Recommended Starting Dilution: 10% (1:10) Typical Operating Range: 8% (1:13) to 12% (1:8) For concentrations outside this range contact CIMCOOL® Technical Service at 513-458-8199.</p> <p>CimVantage® CSS-NR38 is to be mixed with water for use (add concentrate to water). Add no other substances to the concentrate or mix unless approved by CIMCOOL® Technical Services.</p> <p>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 / Chemical Colors available: Undyed Solubility in water: 100% Miscible Weight, lb/gal, 60°F (15.6°C): 8.4 Specific gravity, (H₂O = 1): 1.01 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): 30 (-1) If frozen, product separates. Thaw completely at room temperature and stir thoroughly. pH, concentrate: 9.0 pH, 10.0% mix, typical operating conditions: 8.6 Total chlorine/chloride, wt%, calculated: 0.00/<50 ppm Total sulfur, wt%, calculated: 0.13 Silicones: 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 CimVantage® CSS-NR38, 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-9811 3/12/07</p>	

