

CIMCOOL®

METALWORKING FLUIDS

CIMSTAR® QUAL STAR® XLZ SEMISYNTHETIC, METALWORKING FLUID CONCENTRATE

APPLICATIONS	<p>CIMSTAR® QUAL STAR® XLZ is recommended for general-purpose machining and grinding of ferrous metals. It can also be used on some moderate to heavy-duty applications on non-ferrous metals.</p> <p>Metals: Cast Iron, Nodular Iron, Malleable Iron, Gray Iron, Carbon Steels, Cast Steel, High Speed Steel, High Alloy Steels, Stainless Steels, Aluminum</p> <p>Duty Range: For moderate to heavy-duty operations</p>
FEATURES & BENEFITS	<p>CIMSTAR® QUAL STAR® XLZ is a new-generation biostable semi-synthetic that blends the technological advantages of modern day synthetic fluids with the performance capabilities of soluble oils.</p> <p>EXCELLENT RANCIDITY CONTROL - Contains a patented microbial control package - Effective protection against bacteria and mold - Provides long life and minimizes the use of additives</p> <p>LUBRICITY - Physical and chemical lubricants provide good machining and grinding properties - Keeps parts and tools cool</p> <p>EXCELLENT FERROUS CORROSION CONTROL – The rust inhibitor package is extremely effective in preventing in-process rust on machines and parts - also very effective on cast/malleable/gray/ and nodular iron</p> <p>NON-FERROUS CORROSION CONTROL – Contains non-ferrous corrosion inhibitors which prevent stain on aluminum alloys, brass, copper and bronze</p> <p>GENERAL-PURPOSE PRODUCT - Can be used economically throughout the shop on light to moderate-duty operations; just vary the dilution to suit the job requirements</p> <p>OPERATOR FRIENDLY - Easy to maintain and control - Waste treatable using standard fluid treatment procedures and systems - Can be recycled for reuse</p>

RECOMMENDED STARTING DILUTIONS	<p>FOR INDUSTRIAL USE ONLY Recommended Starting Dilution: 5% (1:20) Typical Operating Range: 5% (1:20) to 10% (1:10) For concentrations outside this range contact CIMCOOL® Technical Service at 513-458-8199.</p> <p>CIMSTAR® QUAL STAR® XLZ 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, Chemical Colors available: Undyed, Pink Solubility in water: 100% Miscible Weight, lb/gal, 60°F (15.6°C): 8.52 Specific gravity, (H₂O = 1): 1.0208 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): 26 (-3) If frozen, product separates. Thaw completely at room temperature and stir thoroughly. pH, concentrate: 9.9 pH, 5.0% mix, typical operating conditions: 8.9 Total chlorine/chloride, wt%, calculated: 0.00 Total sulfur, wt%, calculated: 0.09 Silicones: None Triazine: None Dicyclohexylamine: None</p>
PACKAGING	Available in 5-gallon pails, 55-gallon drums, and bulk containers.

REFRACTOMETER FACTOR = 1.6 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.

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.

For additional information concerning CIMSTAR® QUAL STAR® XLZ, 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.

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

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