



Product Information Flyer

DESCRIPTION

CIMSTAR QUAL STAR LFZ is a semi-synthetic metalworking fluid.

APPLICATION

CIMSTAR QUAL STAR LFZ was developed for use on cast iron, nodular iron, carbon steels, high speed steel, high alloy steels, stainless steels, and most aluminum alloys. It is not recommended for use on magnesium alloys.

For moderate to heavy-duty operations.

FEATURES & BENEFITS

VERSATILE PRODUCT:

New-generation semi-synthetic metalworking fluid that blends the technological advantages of modern day synthetics with performance capabilities of soluble oils. Low foaming in soft water (less than 125ppm hardness).

CORROSION PROTECTION:

Rust inhibitor package is extremely effective in preventing in-process rust on machines and parts. Contains non-ferrous corrosion inhibitors.

LUBRICITY:

Physical and chemical lubricants provide good machining and grinding properties. Keeps parts and tools cool.

MICROBIAL CONTROL:

Superior protection against bacteria and mold if properly maintained.

GENERAL-PURPOSE PRODUCT:

Can be used economically throughout the shop on light, moderate and some heavy-duty operations.

RECOMMENDED STARTING DILUTIONS

CIMSTAR QUAL STAR LFZ is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55 F. Add no other materials to the concentrate or mix unless approved by your CIMCOOL® District Manager.

Grinding	5% - 10%	(1:20 to 1:10)
Machining	5% - 10%	(1:20 to 1:10)

CONCENTRATION

Non-solvent Titration, Total Alkalinity or Refractometer can be used.

The Refractometer Factor is 1.6

Multiply the scale reading obtained on your CIMCOOL® Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing. A refractometer is only recommended for use in checking the concentration on a fresh charge.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid

Solubility in water: 100% miscible

Viscosity (SUS) @ 100°F: 1000

pH Concentrate: 10.0

Total Chlorine/Chloride, wt%: 0.0/<50ppm

Silicones: No

Appearance and Odor: Clear/Chemical

Weight, lb/gal, 60°F (15.6 °C): 8.5

Flash Point /Sp.Gr./Boiling Point: SEE MSDS

pH Mix 5%, Typical Operating: 8.9

Total Sulfur, wt%: 0.16

HANDLING and STORAGE

If frozen thaw completely at room temperature. Inside storage is recommended.

SAFETY DATA SHEET

Available at www.cimcool.com

For additional information refer to its OSHA MSDS, website or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL® Technical Services at 1-513-458-8199.

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