



Product Information Flyer

DESCRIPTION

CIMSTAR QUAL STAR LF is a semi-synthetic metalworking fluid, developed for use in the aerospace industry.

APPLICATION

CIMSTAR QUAL STAR LF was developed for moderate to heavy duty applications on cast iron, nodular iron, carbon steels, high speed steel, high alloy steels, stainless steels, aluminum. It is not recommended for use on magnesium alloys.

FEATURES & BENEFITS

VERSATILE PRODUCT:

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

CORROSION PROTECTION:

The rust inhibitor package is extremely effective in preventing in-process rust on machines and parts. The product contains non-ferrous corrosion inhibitors which prevent stain on most non-ferrous alloys.

LUBRICITY:

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

MICROBIAL CONTROL:

Effective protection against bacteria and mold.

GENERAL-PURPOSE PRODUCT:

Can be used economically throughout the shop on light, moderate and some heavy-duty operations. Just vary the dilution to suit the job requirements.

*CIMSTAR QUAL STAR LFB has improved foam control, especially in applications where higher pressures are employed in soft water.

RECOMMENDED STARTING DILUTIONS

CIMSTAR QUAL STAR LF 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: 600

pH Concentrate: 9.8

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

Silicones: No for Qual Star LF, Yes for Qual Star LFB

Appearance and Odor: Hazy/Chemical

Weight, lb/gal, 60°F (15.6 °C): 8.5

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

pH Mix 5%, Typical Operating: 8.8

Total Sulfur, wt%: 0.2

HANDLING and STORAGE

If frozen product may separate. Thaw completely at room temperature and stir prior to use. 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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