



## *Product Information Flyer*

### **DESCRIPTION**

CIMSTAR QUAL STAR is a semi-synthetic metalworking fluid designed for the aerospace industry.

### **APPLICATION**

CIMSTAR QUAL STAR can be used on titanium, mild steels, stainless steels, hardened steels, exotics and most aluminum alloys. It should not be used on magnesium alloys.

For use in moderate duty machining and grinding applications, such as milling, drilling, cut tapping, reaming, boring and surface grinding.

### **FEATURES & BENEFITS**

#### **VERSATILE PRODUCT:**

Excellent lubricity – physical and chemical lubricants provide good machining and grinding ability without the use of extreme pressure additives.

#### **CORROSION PROTECTION:**

The oily residue keeps machine tools and work-piece materials free of corrosion and staining.

#### **MICROBIAL CONTROL:**

CIMSTAR QUAL STAR has good rancidity control if product concentration is properly controlled.

## RECOMMENDED STARTING DILUTIONS

CIMSTAR QUAL STAR 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 (13°C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL® Territory Manager.

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

## CONCENTRATION

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

The Refractometer Factor is 1.5. A refractometer is only recommended for use in checking the concentration of a fresh charge. 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.

## TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Solubility in water:** 100% miscible

**Viscosity (SUS) @ 100°F (38°C):** 620

**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%:** 0.3

## HANDLING and STORAGE

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

## SAFETY DATA SHEET

Available at [www.cimcool.com](http://www.cimcool.com)

For additional information refer to its MSDS, website or contact CIMCOOL® Technical Services at 1-513-458-8199 in Ohio.

***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.***

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