



Product Information Flyer

DESCRIPTION

CIMTECH 627 is a “hybrid synthetic” utilizing patented Milacron and specialty lubricants in a unique blend for unmatched and superior grinding and machining performance.

APPLICATION

CIMTECH 627 is designed for use on stainless and hardened steels, exotics and most aluminum alloys where increased feeds, speeds and pressures cause conventional fluids to fail. It should not be used on magnesium alloys.

For severe duty grinding and machining applications where wheel/tool life and surface finish requirements are critical. It can improve wheel life by 300% or more compared to conventional fluids, and 40% or more compared to high performance fluids.

FEATURES & BENEFITS:

This third generation “hybrid” offers the following grinding ratio increases compared to earlier versions:

- Improved G-ratio over:
 - Conventional Fluids 300%
 - 2nd Generation Hybrid 70%
- Lower Foam than 2nd generation version
- Improved biological control

GRINDING:

CIMTECH 627 offers a tremendous increase in grinding ratio without the use of chlorinated extreme pressure additives. It is an excellent choice for valve stem grinding, bearing grinding and other severe grinding operations and performs even better when conditions are extreme.

MACHINING:

CIMTECH 627 reduces cut zone force, extending tool life and improving surface finish. It can also be used for form-tapping operations.

RECOMMENDED STARTING DILUTIONS

CIMTECH 627 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® District Manager.

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

CONCENTRATION

BCG Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 1.4.

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: 2050

pH Concentrate: 9.0

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

Silicones: Yes

Appearance and Odor: Clear/Chemical

Weight, lb/gal, 60°F (15.6 °C): 8.7

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

pH Mix 5%, Typical Operating: 8.9

Total Sulfur, approximate wt%: 3

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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