## CITGO CITCOOL® SS-GP



Date 06/15

- **DESCRIPTION:** CITGO CITCOOL SS-GP is a general purpose, semi-translucent, low oil content, semi-synthetic fluid designed for dilution in water to produce a metalworking coolant for use in a variety of general machining operations.
  - **FEATURES:** Forms stable emulsions in various water hardness up to 1000ppm • Low foaming tendencies
    - · Low oil content
    - Free of chlorine, secondary amines, phenols, nitrates, PCB's, and heavy metals
  - **BENEFITS:** Product performance is constant and machine remains clean
    - Reliable in-service performance especially in higher pressure coolant delivery systems
    - Longer sump life
    - · Ease of disposal and friendly work environments
- **APPLICATIONS:** CITGO CITCOOL SS-GP is recommended for light-duty, general machining including thread cutting and forming, deep hole drilling and boring, reaming, and grinding of cast irons, ferrous alloys and stainless steel.

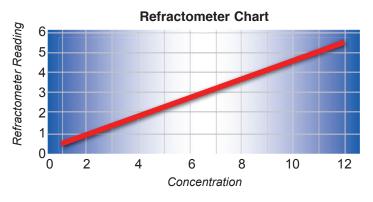


Concentrate Diluted with Water

### **Material Compatibility**



\*Not recommended for aluminum and copper alloys.



Refractometer Reading at 10% = 4.5 <sup>o</sup>Brix Refractometer Factor = 2.22

(Continued)

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Date 06/15 - (Continued)

### **TYPICAL PROPERTIES - CITGO CITCOOL® SS-GP**

Material Code	639334001
Appearance, Concentrate (neat)	Yellow Fluid
Dilution (5% in DI water)	Semi-Translucent
Gravity, Specific, ASTM D 1298, 60/60°F	1.01
Mineral Oil Content %	10
pH at 3% concentration	9.4
Defoaming mL (5% in 50 ppm water)	Nil (20 sec.)

### **METAL MACHINABILITY GROUPS(1)**

Machining Operation	1 Non-Ferrous, Soft Metals <sup>(2)</sup>	<b>2</b> Nickel Alloys, Nitralloy Steels, Cast Irons and Alloy Steels (up to 200 Brinell)	<b>3</b> Stainless Steels, "Monel" Metals, Cast Irons and Alloy Steels (200 to 300 Brinell)	<b>4</b> Titanium Alloys, High Tensile Nickel Alloys, Austentic Stainless Steels, Tool Steel and High Tensile Alloy Steels (300 to 400 Brinell)
Turning, Boring, Milling, Forming, Drilling, Sawing	5-7%	5-7%	8-10%	8-10%
Tapping, Thread Rolling, Reaming, Screw Cutting, Broaching	5-7%	5-7%	8-10%	8-10%
Gear Shaping, Form and Thread Milling, Shaving, Hobbing, and Trepanning	5-7%	5-7%	8-10%	8-10%
Internal and External Grinding, Form and Thread Grinding	5-7%	5-7%	5-7%	5-7%
Stamping	10-20%	10-20%	10-20%	10-20%

**Notes:** (1) Dilution ratios shown are approximate and may require higher or lower water concentrations depending on a number of factors including the type of metal cut, machine speed, the severity of the operation, metal hardness, etc.

(2) CITCOOL SS-GP is not recommended for machining aluminum alloys or magnesium (due to possible staining).

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