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## ASTRO-CUT SYN GL

### OVERVIEW

ASTRO-CUT SYN GL is a heavy-duty oil-free synthetic cutting and grinding fluid concentrate designed to offer good lubricity as well as excellent corrosion control on machinery and workpieces while providing a long sump life. This product may be used on a variety of metals, including steels, cast iron and aluminum; in operations ranging from grinding to turning to milling.

### FEATURES & BENEFITS

- Excellent Corrosion Inhibition
- Nitrite-Free
- Chlorine-Free
- Phenol-Free
- Very Low Foam – Excellent on High Pressure or High Speed Machining
- Excellent Cooling for Ability to Maintain Close Tolerances
- Tolerant of Hard Water
- Resistant to Damage from

### APPLICATIONS

ASTRO-CUT SYN GL has been designed for machining most metals except magnesium. Excellent on cast iron. This product may also be used for grinding: Blanchard, diamond wheel, belt, disk, etc. NOTE: Since this product is completely oil-free, it may be used in most coolant mist units for machining and grinding operations.

### RECOMMENDED CONCENTRATION

| Application                          | Concentration, % | Ratio       | Refractometer |
|--------------------------------------|------------------|-------------|---------------|
| Milling, Drilling, Turning           | 5% - 10%         | 1:10 - 1:20 | 2.0 - 4.0     |
| Centerless, ID, OD, Surface Grinding | 4%               | 1:25        | 1.6           |
| Tapping, Sawing, Reaming             | 10%              | 1:10        | 4.0           |

### MIXING

|                  |      |      |      |      |      |      |      |
|------------------|------|------|------|------|------|------|------|
| Concentration, % | 4%   | 5%   | 6%   | 7%   | 8%   | 9%   | 10%  |
| Ratio            | 1:25 | 1:20 | 1:17 | 1:14 | 1:12 | 1:11 | 1:10 |
| Refractometer    | 1.6  | 2.0  | 2.4  | 2.8  | 3.2  | 3.6  | 4.0  |

### TYPICAL PROPERTIES

|                         |                       |
|-------------------------|-----------------------|
| Appearance-Concentrate  | Colorless liquid      |
| Appearance- Dilution    | Transparent Colorless |
| Residual Film           | Soft, soluble         |
| pH @ 20:1               | 9.5 ± 0.2             |
| Specific Gravity @ 60°F | 1.04 ± 0.03           |
| Lbs/Gallon              | 8.68 ± 0.1            |
| Flash point, PMCC       | None                  |

Material Safety Data Sheets are available for all products.  
All reasonable care has been taken to ensure  
that the above information is accurate as of the date of printing.