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## Astro-Cut Super SYN

### OVERVIEW

ASTRO-CUT SUPER SYN is a heavy-duty oil-free synthetic cutting and grinding fluid concentrate designed to offer outstanding machining performance in even the most demanding applications, including aluminum and tough aerospace materials. This clean-running, low-foam product is stable in both soft and extremely hard water and contains additives which provide excellent rejection of tramp oils. In addition, ASTRO-CUT SUPER SYN provides rapid fine settling capabilities. This product contains no secondary amines.

### FEATURES & BENEFITS

- Superior Machining Lubrication
- 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 Tramp Oil
- Water Extendable- Economical
- Long Tank Life

### APPLICATIONS

ASTRO-CUT SUPER SYN has been designed for machining and grinding most metals, including stainless steels, tool steels and alloys. ASTRO-CUT SUPER SYN is formulated to prevent staining or corrosion on copper, brass, bronze or aluminum. Excellent on cast iron. ASTRO-CUT SUPER SYN should not be used for machining Magnesium. This product may be used in most coolant mist units.

### RECOMMENDED CONCENTRATION

Application	Concentration	Ratio	Refractometer
Miling, Driling, Turning	5% - 10%	1:10 - 1:20	2.0 – 4.0
Centerless, ID, OD, Surface Grinding	4%	1:25	1.6
Tapping, Sawing, Reaming	2.5% - 4%	1:25 – 1:40	1.0 – 1.6

### 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	Blue liquid
Appearance - Dilution	Transparent Blue
Residual Film	Soft, soluble
pH @ 20:1	9.3 ± 0.2
Specific Gravity @ 60°F	1.03 ± 0.03
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.