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## Astro-Cut TS Aero

### Overview

Astro-Cut TS Aero is a heavy duty mineral oil based BIOSTABLE micro-emulsion concentrate designed for the machining and grinding of virtually all metals except magnesium. This chlorine-free formulation is especially suited for aerospace and other applications which restrict the use of chlorine. Astro-Cut TS Aero has good foam control and was designed using raw materials that have the ability to resist extreme biological degradation, thus providing very long sump life in a properly maintained machine tool.

### Applications

Astro-Cut TS Aero is designed for use in metalworking applications such as all CNC milling, turning, drilling, tapping, grinding and sawing applications.

### Features Benefits

- Eliminates Need for Tankside Additives
- Clean Running
- Low Foaming
- Chlorine and Sulfur Free
- Good Workpiece Visibility
- Reduced Overall Cost
- Superior Lubricity
- Excellent Corrosion Inhibition

### Recommended Concentration

Application	Concentration	Ratio	Refractometer
Miling, Driling, Turning	5%	1:20	4.0
Centerless, ID, OD, Surface Grinding	4%	1:25	3.2

### 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	3.2	4.0	4.8	5.6	6.4	7.2	8.0

When mixing coolant, it is best to use an automatic proportioner which accurately and thoroughly mixes coolant. To maintain recommended concentration make-up should be added at one-half of the desired concentration.

### Typical Properties

Appearance - Concentrate	Amber liquid
Appearance - Dilution	Translucent amber
Residual Film	Soft, fluid
pH @ 20:1	8.9 ± 0.2
Specific Gravity @ 60°F	0.99 ± 0.03
Lbs/Gallon	8.2 ± 0.1
Total Sulphur, wt %	None
Total Chlorine, wt %	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.