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## ASTRO-CUT MICRO A HP

### OVERVIEW

ASTRO-CUT MICRO A HP is a heavy duty mineral oil based BIOSTABLE micro-emulsion concentrate designed for the machining and grinding of virtually all metals except magnesium. ASTRO-CUT MICRO A HP has exceptional foam control for high pressure operations and is formulated without the use of chlorine. This product offers a long sump life and a high degree of emulsion stability, even in hard water. ASTRO-CUT MICRO A HP is not recommended for use on Magnesium.

### APPLICATIONS

ASTRO-CUT MICRO A HP is designed for use in high and low pressure metal removal operations such as all CNC milling, turning, drilling, tapping, grinding and sawing.

### RECOMMENDED CONCENTRATION

Application	Concentration, %	Ratio	Refractometer
Milling, Drilling, Turning	5%	1:20	4.1
Centerless, ID, OD, Surface Grinding	4%	1:25	3.3
Tapping, Sawing, Reaming	10%	1:10	8.2

### 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	3.3	4.1	4.9	5.7	6.6	7.4	8.2

### TYPICAL PROPERTIES

Appearance-Concentrate	Amber liquid
Appearance- Dilution	Translucent Amber
Residual Film	Soft, fluid
pH @ 20:1	9.1 ± 0.2
Specific Gravity @ 60°F	1.00 ± 0.03
Lbs/Gallon	8.34 ± 0.1
Total Chlorine, wt %	None
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.