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Astro-Sol A HP

OVERVIEW

ASTRO-SOL A-HP is a medium-to-heavy duty biostatic soluble oil. This product was designed to be extended with water 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-SOL A-HP has exceptional foam control for high pressure operations 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.

FEATURES & BENEFITS

- Eliminates Need for Tankside Additives
- Mild Pleasant Odor
- Excellent Corrosion Inhibition
- Long Lasting
- Excellent Hard Water Stability
- Operator Friendly

APPLICATIONS

ASTRO-SOL A-HP is designed for use in metalworking applications such as all CNC milling, turning, drilling, tapping, grinding and sawing applications.

RECOMMENDED CONCENTRATION

Application	Concentration	Ratio	Refractometer
Tapping, Sawing, Reaming	10%	1:10	11.4
General Machining	7%	1:14	8.0
Grinding	4%	1:25	4.6

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	4.6	5.8	6.8	8.0	9.1	10.3	11.4

TYPICAL PROPERTIES

Appearance-Concentrate	Amber liquid
Appearance - Dilution	Opaque Amber
Residual Film	Soft, fluid
pH @ 20:1	9.2 ± 0.2
Specific Gravity @ 60 °F	0.94 ± 0.03
Lbs/Gallon	7.85 ± 0.1
Total Chlorine, wt %	None
Flash Point, COC °F	355

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.