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## Astro-Swiss HD VLV

### OVERVIEW

Astro Swiss neat cutting oils are designed for the most demanding Swiss style screw machining applications where speeds and feeds are the most important aspect of the machining operation. The Astro Swiss will reduce bar stock galling and scratching due to the guide bushings clamping. The Astro Swiss will help increase tool life because of the advanced designed to activate during high energy applied cutting operations.

### FEATURES & BENEFITS

- Very Low Foaming
- Excellent Corrosion Inhibition
- Exceptional cleanness for visibility
- Outstanding Lubricity for Superior Finishes
- Enhanced bimetallic corrosion inhibition
- Operator Friendly and Clean Running
- Compatible for all materials
- Recommended for Swiss Screw Machines.

### APPLICATIONS

For the ultimate lubrication the Astro Swiss will provide that much needed advantage in the highly competitive Swiss precision machining industry. The Astro Swiss oils can be applied to workpieces from 0.125" (3.15mm) to .500" (12.65mm) dia. and for all materials, including titanium, nickel alloys, stainless steel and tool steel. To achieve the maximum benefit of the Astro Swiss please apply the product to the most demanding applications.

### MIXING

**Astro-Swiss HD VLV is intended to be used as received, with no mixing or dilution required. Astro-Swiss HD VLV is not dilutable with water.**

### TYPICAL PROPERTIES

Form	Liquid
Odor	Bland Pleasant
Color	Light Amber
Flash Point, COC °F	240
Calcium, Wt. (%)	>5
Active Sulfur % / wt	0.0
Viscosity, cSt/40°C	5.5
Viscosity, SUS/100°F	35
Vapor Pressure, mm Hg @25°	<0.01
Boiling Point °F / °C	>390/199

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.