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## Astro-Swiss HD LV

### Overview

Astro Swiss neat cutting oil is designed for the most demanding Swiss style screw machining applications where speeds and feeds are the most important aspect of the ma-chining operation. The Astro Swiss HD LV will reduce bar stock galling and scratching due to the guide bushings clamping. The Astro Swiss HD LV will help increase tool life because of the advance extreme pressure additives designed to activate during high energy applied cut-ting operations.

### Applications

For the ultimate lubrication the Astro Swiss HD LV will provide that much needed advantage in the highly competitive Swiss precision machining industry. The Astro Swiss oil 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. With a very high level of highly stabilized chlorinated EP agent, the Astro Swiss HD LV will not cause varnish, stain or flash corrosion when used in high temperature cutting applications

### 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

### Typical Properties

Appearance	Liquid
Odor	Bland Pleasant
Color	Light Amber
Flash Point, COC °F	290
Calcium, Wt. (%)	>15
Active Sulfur % / wt	0.0
Viscosity, cSt/40°C	21
Viscosity, SUS/100°F	150
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.