



Monroe Fluid Technology

® The **Astro Swiss** line of cutting oils are designed for use in Citizen, Tornos, Star & Tsugami, Swiss style screw machines. The Astro Swiss products are also made to meet the demands of the medical, aerospace and electronic industries

Astro Swiss HD LV

General Description High Performance Cutting Oil

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.

Advantages

- 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** 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

Physical Properties

Astro Swiss HD LV

Form • Liquid
Odor • Bland Pleasant
Color • Light Amber
Flash Point COC • 290°F
Chlorine % / wt • >15%
Active Sulfur % / wt • 0.0%
Viscosity Cst @ 40C° • 30
Viscosity SuS @ 100F° • 150
Vapor Pressure, mm Hg @25° • <0.01
Boiling Point °F / °C • >390/199

