



## Metalworking Coolants

### Semi-Synthetics:

**Astro-Cut HP XBP** Contains approx. 15% mineral oil, great foam control, long sump life, very good performance without chlorinated additives, use for all machining operations.



**Astro-Cut High Pressure HD** Great performance, heavy duty, biostable coolant concentrate with chlorinated additive for enhanced lubricity. Low foaming for high pressure delivery and through tool coolant delivery. Suitable for all metals except magnesium, will perform all machining operations.



### Micro-Emulsions:

**Astro-Cut Micro A XBP** Heavy duty, mineral oil based micro-emulsion. Very efficient product with excellent lubricity, biostability formulation provides long sump life, great foam control, no chlorinated additives.



**Astro-Cut Micro XL** Mineral Oil based, micro-emulsion is chlorine free, offers great lubricity. Low foaming, clean running, great on aluminum, suitable for all machining operations. Biostable product provides long sump life.



### Synthetics:

**Astro-Cut Syn XBP** Oil free, extended bio protection coolant with foam control and corrosion protection, can be used for all machining, suitable for misting and grinding. No chlorinated additives or nitrates.



**Astro-Cut Syn G Blue** Oil free coolant concentrate provides good lubricity, long sump life, suitable for all metals except for magnesium and all machining operations. Perfect choice for sawing and misting, operator friendly.



Complete product line at [www.monroefluid.com](http://www.monroefluid.com)



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COMPANY  
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climate neutral via offsetting



## Metalworking Coolants (Continued)

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## Water Soluble Oils:

**Astro-Sol N** High lubricity, great for all machining and grinding, hard water stable, no chlorinated additives, low foam, very good sump life



**Astro-Sol A XBP** Medium to heavy duty concentrate, suitable for all machining and all metals except magnesium, low foaming, excellent biostability.



## Sawing Fluid And Misting Fluids:

**Astro-Saw A** A full synthetic (no oil), great for aluminum, runs clean, does not contain chlorine or nitrates, perfect for all sawing applications, low disposal costs, operator friendly, extends blade life.



**Astro-Mist A** Oil free, nitrate free this product is suitable for all grinding and light machining. Operator friendly, provides superior cooling and corrosion protection.



## Tapping Fluid:

**Cool Tool II** 100% Biobased Cutting & Tapping Fluid, suitable for all metals and most plastics. The Industry standard since 1958! Available in liquid and aerosol.



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## Metalworking Fluids (Continued)

### EDM Fluid:

**Astro EDM A** EDM A is a low odor, dielectric fluid formulated for superior performance and precision cutting. This low viscosity fluid, has a high flashpoint, allows better flushing of electrode gaps, and is suitable for all EDM operations. It offers rapid cooling, is operator friendly and is suitable for ferrous and non-ferrous metals.



### Drawing Fluids:

**Astro-Draw A** Heavy duty water soluble drawing oil. It has been formulated for use on heavy drawing and blanking operations and has excellent adherence and anti wipe properties. It can be used on both ferrous and non-ferrous metals without staining or rusting. This product is a complex blend of extreme pressure additives, fatty esters and rust inhibitors.



**Monroe Draw 500 EP EM** A straight oil product, not water miscible. This heavy duty rinseable drawing oil has been formulated for use on difficult drawing and blanking operations and has excellent adherence and anti-wipe properties. This product is well-suited for fine blanking operations on ferrous and stainless steels. It performs extremely well on both ferrous and non-ferrous metals without staining or rusting



### Cleaners:

**Astro-Clean A** low foam alkaline cleaner designed to remove process oils, gummy deposits of oil, grease, swarf and normal shop soils from machine tools, floors, and other hard surfaces. It combines organic and mineral alkalinity builders, detergents, water conditioners and deodorizer for optimum performance. The primary application of ASTRO-CLEAN A is for cleaning machine tool coolant sumps and surfaces. *Can be added on top of coolant and either run through system, or make parts while preparing for machine clean out and recharge.*



**Astro-Clean HD** is a fast-acting, deep-penetrating liquid alkaline cleaner and degreaser which quickly removes rubber tire marks, greases, tars, oils, wax films and other shop soils. CLEAN HD is used as received for removing rubber tire marks and tough shop soils. It may also be diluted in water for less demanding applications such as use in auto scrubbers, agitated cleaner tanks or manual cleaning operations.



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