

"The Solution Is Science®"

Formulating advanced chemistry and lubricant solutions for the metalworking industry. Products proven to improve manufacturing performance, part quality and cost savings!

CUTTING OILS



Consultant Lubricants, Inc

2163 Cutting Oil

Dual-Purpose

- 1) Anti Welding Properties** - Cutting oils provide a very important interface when machining metal materials. As pressure increases and overcome the ability for oil to prevent metal-to-metal contact, select quality additives "activate" to prevent cold welding of material to the cutting tool.
- 2) Flushing Away Chips** - Cutting oils require a light/thin viscosity base oil to deliver the additives to "the work" while simultaneously flushing chips away from the workplace.
- 3) Cooling and Flow** - Fluids that are too thick or not adequately treated with additives will increase heat during the process and make it more difficult to keep dimensions of the finished part. Max flow is recommended in circulated systems to provide optimal cooling and reduce expansion/contraction.
- 4) Prevent Metal Staining** - Proper selection of cutting fluid is critical to maintaining compatibility with the material mix to be machined. CLI's products are treated with the proper chemistry for the appropriate metals mix. To prevent staining, do not use sulfurized cutting oils on aluminum, brass and copper alloys.

2163 is a dual purpose cutting oil suitable for machining all types of metals. Treated with high lubricity synthetic polymers to provide exceptional tool life on ferrous and non-ferrous materials without staining. These products may also be utilized in the cutting machinery gear lube system. Leakage into cutting system is then compatible with the cutting oil.

The more aggressive the machining requires higher quality cutting oil to maintain anti-weld proper-

ties under extreme pressure and higher speeds and feeds. The color is light amber and has received excellent operator acceptance.

A special anti-mist additive reduces misting to a minimum.

CLI products treated with specific additives to transfer HEAT from the "built up edge" to the chip.

Cooler machining means more accurate machining.

Request A Trial Sample and Prove It For Yourself!

