



# PRO-CHEM-CO, INC.

# TECHNICAL DATA

## MICROPRO-CUT 611

### SYNTHETIC MICROLUBRICANT

#### DESCRIPTION:

MICROPRO-CUT 611 is a synthetic microlubricant to cut/form/stamp aluminum, copper, and other soft metals. MICROPRO-CUT 611 has such exceptional boundary lubrication it is able to perform a multitude of metalworking operations using only “**drop**” quantities. Applied with any adjustable spray system that does not atomize, it will out perform water-soluble coolants. MICROPRO-CUT 611 is biodegradable, non-toxic, generates no disposal, and has virtually unlimited shelf life.

#### BENEFITS:

- Outstanding lubricity
- Outstanding tool and die life
- Non-staining on all metals
- Annealable/Weldable (ashless)
- Versatile (cutting and forming)
- Exceptional part finishes
- Clean (produces dry chips)
- \* Economical (drop usage)
- \*\* Minimal residue
- No disposal (consumed in operation)
- No post cleaning required
- No rancidity (contains no water)
- Non-hazardous (contains no oil)
- No corrosion (contains no water)
- No mixing or measuring (used as received)
- No mess
- Improved shop safety & cleanliness

\* A typical machine tool would use 1 to 2 ounces in an 8-hour shift.

\*\* Painting, plating, or coating directly over MICROPRO-CUT 611 is common.

## **PRODUCT APPLICATIONS:**

MICROPRO-CUT 611 has such exceptional lubricity that when applied precisely on tooling will perform virtually any cutting or forming operation on soft metals, wood, or plastics.

### **Cutting Operations:**

- Sawing
- Tapping
- Piercing
- Drilling
- Milling
- Belt Grinding
- Reaming
- Boring
- CNC Machining
- Grooving
- Tool Grinding
- Profiling
- External Broaching
- Punching

### **Forming Operations:**

- Stamping
- End Forming
- Roll Forming
- Coining
- Bending
- Extruding
- Drawing
- Spinning
- Blanking
- Swaging
- Spline Rolling
- Stretch Forming
- Hobbing
- Ironing

## **DIRECTIONS FOR USE:**

MICROPRO-CUT 611 is ideally applied by adjustable spraying equipment with positive displacement pumps. It can also be applied by roller, drip, or immersion methods. Always apply to tooling before cutting or forming.

HOT PARTS = INCREASE FEED RATE  
HOT TOOLING = REDUCE FEED RATE

## **PROPERTIES:**

Appearance ----- Blue, Clear Liquid  
Odor ----- None  
Solubility ----- Insoluble in Water  
Specific Gravity ----- 0.845

## **PACKAGING:**

MICROPRO-CUT 611 is available in 4 X 1 gallon cases, 5-gallon pails, 55-gallon drums, totes.