



PRO-CHEM-CO, INC.

TECHNICAL DATA

MICROPRO-CUT 613

SYNTHETIC MICROLUBRICANT

DESCRIPTION:

MICROPRO-CUT 613 is a synthetic microlubricant to cut/form/stamp high alloy steels, stainless steels, and other hard metals. MICROPRO-CUT 613 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 613 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
- Non-hazardous (contains no oil)
- Versatile (cutting and forming)
- Exceptional part finishes
- Clean (produces dry chips)
- * Economical (drop usage)
- No disposal (consumed in operation)
- No post cleaning required
- No rancidity (contains no water)
- Improved shop safety & cleanliness
- No corrosion (contains no water)
- No mixing or measuring (used as received)
- No mess
- ** Minimal residue

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

** **Painting, plating, or coating directly over MICROPRO-CUT 613 is common.**

PRODUCT APPLICATIONS:

MICROPRO-CUT 613 has such exceptional lubricity that when applied precisely on tooling will perform virtually any cutting or forming operation on all 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 613 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 ----- Green, Clear Liquid
Odor ----- Characteristic
Solubility ----- Insoluble in Water
Specific Gravity ----- 0.865

PACKAGING:

MICROPRO-CUT 613 is available in 4 X 1 gallon cases, 5-gallon pails, 55-gallon drums, totes.