

**MicroLubricant
ML-700
Minimum Quantity Lubrication
Heavy Duty MQL For Soft Metals**



MQL Technology

The process of using minute quantities (drops) of lubricant as opposed to flood lubricant to machine or form metal is now available to you. Microlubrication successfully replaces flood coolants and costly recirculating systems. MQL technology provides excellent results both in terms of performance and total system costs.

PRODUCT DESCRIPTION

MicroLubricant ML-700 is a heavy-duty minimal quantity lubricant for cutting and forming of all metals. **ML-700** is a synergistic blend of botanical and synthetic lubricants that combines all three lubrication processes in **one** lubricant. This state-of-the-art formulation is unique in that it optimizes all machining and forming operations. **ML-700** is completely soluble in **cold** water thus leaving absolutely no residue on the

BENEFITS

- ✓ *Eliminates* coolant waste
- ✓ *Eliminates* coolant maintenance
- ✓ *Eliminates* corrosion
- ✓ *Eliminates* post cleaning process
- ✓ *Eliminates* rancidity and odors
- ✓ *Eliminates* costly additives
- ✓ *Eliminates* mixing/measuring
- ✓ *Eliminates* smoke and oil residue
- ✓ *Improves* air quality – no misting
- ✓ *Eliminates* staining on sensitive metals **100%**
- ✓ **Biodegradable**
- ✓ Produces dry chips – easier to process
- ✓ Eliminates flood lubrication – cost effective
- ✓ *Eliminates* petroleum oils
- ✓ *Reduces* friction and heat
- ✓ *Faster* machining – *Improved* finishes

APPLICATIONS

- ✓ Milling
- ✓ Drilling
- ✓ Tapping
- ✓ Grinding
- ✓ Roll Forming
- ✓ Forming
- ✓ Circular Sawing
- ✓ Band Sawing
- ✓ Reaming
- ✓ Punching
- ✓ Bending
- ✓ Stamping

DIRECTIONS FOR USE

ML-700 is used as received or diluted with water. The lubricant is typically applied directly to the cutting tool through an adjustable applicator that does not atomize. The lubricant must contact the tool before cutting or forming begins. Increasing the feed eliminates hot parts and reducing the feed eliminates hot tooling.

PROPERTIES

Appearance	Clear white liquid	Water Solubility	Complete
Odor	Bland	pH	N/A
Flash Point	140°c	Viscosity(SUS @100f)	135
Specific Gravity	1.05	Acid Number	<0.05

MicroLubricant ML-600 is available in 1 gallon containers, 5 gallon pails, 55 gallon drums and 330 gallon

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No one understands micro lubrication better than Metalloid, so no one else can bring you advanced technology that works on the issues that matter to you. Get the whole story by calling



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