

MicroLubricant ML-700
Minimum Quantity Lubricant
Heavy-Duty MQL for All 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.

MicroLubrication, now that's... **Clever.**

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 part!

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
- ✓ *Eliminates* lubricant 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
- ✓ Heat treatable

Applications

- ✓ Milling
- ✓ Drilling
- ✓ Tapping
- ✓ Grinding
- ✓ Rollforming
- ✓ Forming
- ✓ Circular Sawing
- ✓ Band sawing
- ✓ Reaming
- ✓ Punching
- ✓ Bending
- ✓ Drawing

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	8.6
Flash	None	Viscosity (SUS @100f)	135
Specific Gravity	1.05	Acid Number	<0.05

Packaging **ML-700** is available in 1 gallon containers, 5 gallon pails, 55 gallon drums and 330 gallon totes

Rev.: 05-01-11

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for loss, damage, or expense, direct or consequential, arising out of their use.

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 Metalloid at **800.686.3201**.



Michigan Facility
 1160 White Street
 Sturgis, MI 49091
 telephone 269.503.7300
 facsimile 269.503.7795
www.metalloidcorp.com/microlubricants

Texas Facility
 1720 N. Quevado St
 Jacksonville, TX 75766
 telephone 903.589.3933
 facsimile 903.589.3924

