

## Technical Data

# Lubricool™ 955

## Copper wire drawing lubricant



### Description

Lubricool 955 is our next generation semi-synthetic lubricant for high-speed copper and tinned copper wire drawing. Lubricool 955 represents Metalube's newest cutting-edge, high-performance lubricant technology, designed specifically for fine and superfine copper multi wire machines (16 to 64 wires).

Engineered to excel at higher speeds and larger-scale wire drawing, Lubricool 955 delivers exceptional lubrication, reduced wear on dies and capstans, and a superior surface finish on drawn wire. This advanced formulation ensures consistent performance even under the most demanding conditions.

Crafted from a unique blend of natural, synthetic additives and mineral oil, Lubricool 955 features a low-foaming emulsifier and detergent system that keeps multiwire tanks and machines cleaner for longer. Its superior resistance to destabilisation by water hardness salts, dissolved copper ions and formation of copper soaps, extends emulsion life, ensuring longer intervals between changes while maintaining optimal performance.

### Features and benefits

- **Optimum Lubrication:** Protects tooling and ensures an outstanding surface finish on drawn wire.
- **Extended Service Life:** Enhanced emulsion stability reduces downtime and lowers disposal costs.
- **Copper Soap Resistance:** Prevents copper soap formation.
- **Cleaner Machines & Wire:** significant improvements in cleanliness compared to standard wire drawing lubricants.
- **Less Wire Breaks:** Reduces frequency of wire breakage.
- **Advanced Conductivity and pH Stability:** More stable than competitor products, leading to extended sump life.
- **Ultimate Corrosion Protection:** Protects machine parts and wire surfaces from corrosion.

### Recommended instructions for use

Best used in low hardness and low salt content water but can be used in waters with up to 200 ppm CaCO<sub>3</sub> total hardness. Ideally, use water with an initial hardness of 60-100 ppm CaCO<sub>3</sub> to prepare a fresh emulsion, with de-ionised water being used for subsequent replacement of evaporation losses, spillage etc. Bulk emulsion operating temperatures of 35 – 45 °C are recommended.

To prepare an emulsion always add Lubricool 955 concentrate to water with adequate agitation – never add water to the concentrate.

Refer to the safety data sheet for guidance on safe handling, storage, and disposal.

### Storage

Store Lubricool 955 out of direct sunlight and protect from frost. Storage temperature should be controlled to between 5°C and 35°C.

The most up to date shelf-life information for Metalube products can be found on the certificate of analysis issued at the time of manufacture.

### Pack sizes

Code	Pack
F103810	205 Ltr barrel
F103820	1000 Ltr IBC

### Dilution range

Application	Dilution
Fine wire	4 – 6%
Superfine wire	2 – 4%
Annealer	0.5 – 1.5%

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### Concentration monitoring

Emulsion concentration is generally measured using a refractometer measuring on the Brix scale.

To obtain the actual concentration multiply the refractometer reading by the correction factor 1.01.

e.g. Refractometer reading = 5.0  
 Correction factor X 1.01  
 Actual dilution = 5.05%

### Technical data

Property	Test method	Result
Appearance	MSTM 1	Clear brown oil
Emulsion Appearance (5% de-ionised water)	MSTM 9	Cream Semi-translucent emulsion
Emulsion pH (5% de-ionised water)	MSTM 18	9.2
Conductivity at 25°C (10% de-ionised water)	MSTM 34	300 µS
Density at 20°C	MSTM 23	0.94 g.cm <sup>-3</sup>

Note: these values are typical only and do not constitute a specification