



Lubricool™ 255B

Synthetic superfine wire drawing lubricant



Description

Lubricool 255B is a mineral oil free, high performance, fully synthetic lubricant designed for high speed drawing of fine and super fine copper wire. By utilising fully water soluble synthetic additive technologies Lubricool 255B overcomes many of the issues associated with mineral oil based emulsions such as filter binding, enamelled wire rejections, oil separation and insoluble copper soap formation.

Careful selection of lubricity additives and corrosion inhibitors has resulted in a product that is highly detergent and resistant to degradation and destabilisation by metals and metal ions without compromising foaming characteristics. This results in outstanding machine cleanliness and maximum fluid life. Lubricool 255B is suitable for use on plain and plated copper and enamelled wire. It is also used to great effect when drawing resistance alloys such as pure nickel, nickel chrome and superfine copper alloys.

Features and benefits

- Provides an exceptional smooth, bright and clean finish to the drawn wire
- Excellent lubrication properties reduce wear on dies and cones and increase drawing speeds
- Reduces wire break frequency, minimizing downtime and allowing more full reels of wire to be produced
- Outstanding detergency keeps machines clean and free from deposit build up
- Good resistance to bacterial and fungal attack
- Good foam control
- Unsurpassed filterability allows efficient removal of copper fines

Recommended instructions for use

Global specialists in high-performance lubricants

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Company registration number: 2263118; Company registered in England VAT registration number GB108244927000



Cert No 2367QM8001



Lubricool™ 255B

Being fully synthetic Lubricool 255B is not compatible with mineral oil based emulsions. Machines should be cleaned and flushed to remove residues of previously used lubricants.

For sensitive applications the use of deionized water is recommended. If de-ionised water is not available then make-up water should have a low salt content (conductivity <150 µS).

Lubricool 255B functions by an inverse solubility mechanism therefore bulk operating solution temperatures should be controlled to 30 - 40 °C to prevent resolubilisation problems.

To prepare a solution always add Lubricool 255B concentrate to water with adequate agitation – **never** add water to the concentrate.

For further information consult the Metalube wire drawing lubricants guide.

Dilution range

Fine	Maximum entry 2.00 mm	5 – 7%
Superfine	Finishing 0.05 – 0.15mm	2 – 4%

Pack sizes

Lubricool 255B is available in 1000 litre IBC, 205 litre drums or 20 litre containers.

Technical data (typical values)

Property	Test method	Result
Concentrate appearance	MSTM 1	Clear blue fluid
Solution appearance (5% in de-ionised water)	MSTM 9	Clear blue solution
Solution pH (5% in de-ionised water)	MSTM 18	9.06
Density at 20°C	MSTM 23	1.07 g.cm ⁻³
Conductivity at 25°C (5% in de-ionised water)	MSTM 34	1000 µS

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Concentration monitoring

Solution 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 1.90

e.g. Refractometer reading	=	3.0
Correction factor	X	1.90
Actual dilution	=	5.70%

Storage

Store Lubricool 255B out of direct sunlight and protect from frost. Storage temperature should be controlled to between 5°C and 35°C.

The product information in this publication is based on knowledge and experience at the time of printing. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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