



Lubricool™ 44

High performance wire drawing lubricant



Description

Lubricool 44 is a high performance copper wire drawing lubricant based on a highly effective combination of mineral oil and naturally occurring triglycerides. The inherent properties of these oils results in an emulsion with excellent lubricity combined with low foam potential. The broad performance level of Lubricool 44 results in a product that is a truly multi-purpose drawing lubricant with outstanding performance on plain copper, fine aluminium/aluminium alloy wire and brass wire.

Lubricool 44 performs extremely well on fine and multi-wire machines with small volume lubrication systems, where foaming can sometimes cause persistent problems.

Features and benefits

- High lubrication properties for increased wear protection on dies and capstans.
- Reduces wire break frequency.
- Very good foam control.
- Excellent emulsion stability extends bath life.
- Performs well with all types of filtration systems.

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 CaCO₃ hardness. Ideally, use water with an initial hardness of 60-100 ppm CaCO₃ to prepare a fresh emulsion, with deionised water being used for subsequent replacement of evaporation losses, spillage etc. Bulk emulsion operating temperatures of 35 – 45 °C are recommended.

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



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To prepare an emulsion always add Lubricool 44 concentrate to water with adequate agitation – **never** add water to the concentrate.

For further information consult the Metalube wire drawing lubricants guide.

Dilution range

Rod breakdown	10 - 12%
Dip form and shaved	12 - 16%
Heavy Intermediate	6 - 8%
Medium Fine (entry 2.0mm max.)	4 - 6%
Fine/Superfine (entry 0.2mm)	2 - 4%

Pack sizes

Lubricool 44 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 brown fluid
Emulsion appearance (10% in de-ionised water)	MSTM 9	Fine semi-translucent emulsion
Emulsion pH (10% in de-ionised water)	MSTM 18	8.4
Conductivity at 25°C (10% in de-ionised water)	MSTM 34	1652 µS
Density at 20°C	MSTM 23	0.91 g.cm ⁻³

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Concentration monitoring

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

To obtain the actual dilution multiply the refractometer reading by the correction factor 1.20

e.g. Refractometer reading	=	6.0
Correction factor	X	1.20
Actual dilution	=	7.2%

Storage

Store Lubricool 44 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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