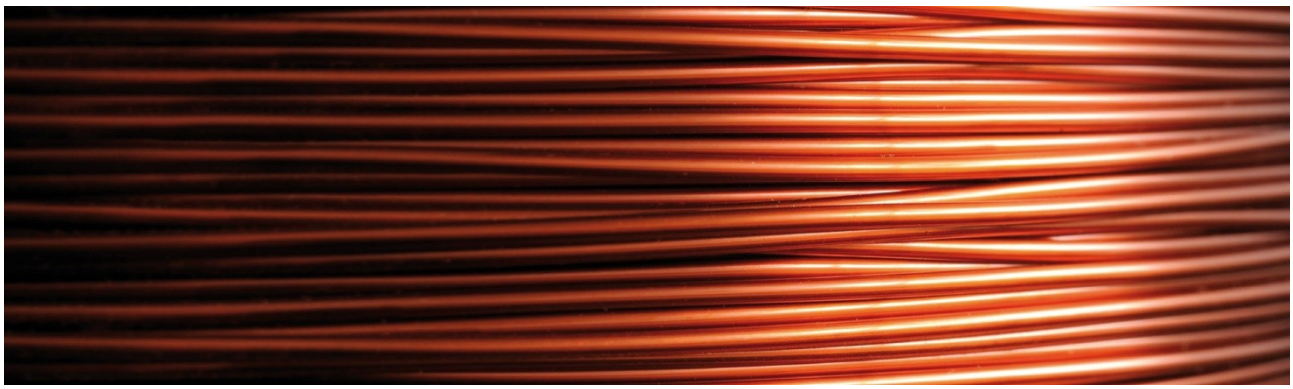
Technical Data

Lubricool™ AC

In-line annealer lubricant



Description

Lubricool AC is high performance fluid specially developed and optimised for use in continuous, in-line annealers. The unique multi-metal inhibitor system protects the annealer chamber and promotes a bright surface finish on the wire.

The highly stable emulsion produced by Lubricool AC has excellent detergency and cleanliness whilst at the same time delivering an ultra-fine protective layer on to the wire surface. This protective layer inhibits oxidation and discolouration of the wire immediately and in longer term storage. Lubricool AC replaces the more common practice of using the drawing lubricant in the annealer chamber and is suitable for use on both copper and tinplated wire.

Lubricool AC is particularly well suited for use in multi-wire annealer systems.

Features and benefits

- Promotes a bright and clean finish to the drawn wire
- Inhibits oxidation and discolouration during extended wire storage
- Inherently low foaming
- Maintains annealer chamber in a clean, well-protected condition
- Leaves a protective layer that aids spooling and subsequent processing operations
- Helps to protect both steel and aluminium annealer parts from corrosion

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

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Recommended instructions for use

For optimum results emulsions should be prepared using deionised water to minimise the corrosive effects of water hardness and other salts.

If deionized water is not available waters with up to 200 ppm $CaCO_3$ hardness can be used.

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

For further information consult the Metalube wire drawing lubricants guide.

Dilution range

Standard wire	1.0% - 2.0%
Enamelled and tandem insulation wire	0.5% - 1.0%

Pack sizes

Lubricool AC is available in 1000L IBC's, 205L drums and 20L containers.

Technical data (typical values)

Property	Test method	Result
Concentrate appearance	MSTM 1	Clear amber fluid
Emulsion appearance (1.5% in de-ionised water)	MSTM 9	Fine milky emulsion
Emulsion pH (1.5% in de-ionised water)	MSTM 18	8.00
Conductivity (1.5% in de-ionised water)	MSTM 34	257 µS
Density at 20°C	MSTM 23	0.93 $g.cm^{-3}$

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Concentration monitoring

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

To obtain the actual concentration multiply the refractometer reading by the correction factor 1.0

e.g.	Refractometer reading	= 2.0
	Correction factor	X 1.0
	Actual dilution	= 2.0%

Storage

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

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