



Lubricool™ 22G

High performance heavy duty rod breakdown lubricant



Description

Lubricool 22G is a high performance, emulsifiable lubricant optimised for copper wire drawing applications. By utilising the best combination of natural and synthetic additive technologies Lubricool 22G provides maximum lubrication and wear reduction on dies and capstans delivering outstanding surface finish on drawn wire. The unique low foaming emulsifier and detergent system keeps machines clean and resists destabilisation by water hardness salts and dissolved copper ions resulting in significantly enhanced emulsion life.

Lubricool 22G is designed for a wide range of applications - from rod sizes to fine wire - and is suitable for copper, tinned copper and enamelling wire.

Features and benefits

- Provides optimum boundary lubrication to protect tooling and deliver outstanding surface finish on drawn wire.
- Excellent emulsion stability and resistance to soap formation extends service life thereby minimizing disposal and downtime costs.
- Maintains machines and wire surface in a clean condition.
- High resistance to excessive foaming.
- Excellent filterability on media (paper) type, hydrocyclone, centrifugal and settlement filtration systems.
- Extremely robust in use, minimal maintenance time and cost

Recommended instructions for use

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



Cert No 2367QM8001



Lubricool™ 22G

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 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 22G 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	Conventionally cast and rolled rod	10 – 12%
	Dip form, shaped or shaved rod	12 – 15%
Intermediate wire	Heavy (entry 3-4mm)	6 – 8%
	Fine (entry <2mm)	4 – 6%

Pack sizes

Lubricool 22G 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 light brown oil
Emulsion appearance (10% in de-ionised water)	MSTM 9	Fine milky emulsion
Emulsion pH (10% in de-ionised water)	MSTM 18	9.0
Conductivity at 25°C (10% in de-ionised water)	MSTM 34	1500 µS
Density at 20°C	MSTM 23	0.95 g.cm ⁻³

Concentration monitoring

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

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To obtain the actual concentration multiply the refractometer reading by the correction factor 1.05

e.g. Refractometer reading	= 6.0
Correction factor	X 1.05
Actual dilution	= 6.30%

Storage

Store Lubricool 22G 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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