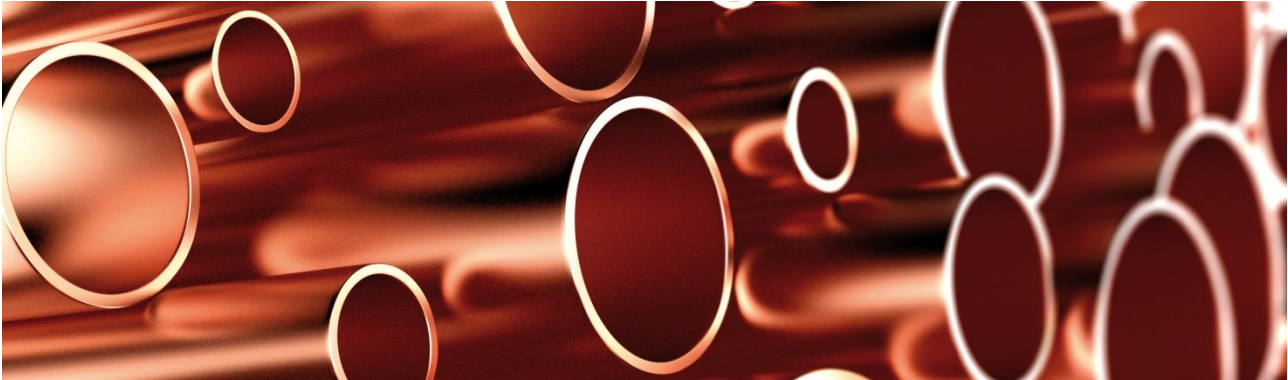




Tubol™ 431

Non-ferrous tube drawing lubricant



Description

Tubol 431 is a high performing lubricant formulated for drawing copper tubes on high speed spinner-blocks. This semi-synthetic lubricant has been developed with highly refined base oils together with the latest additive technology to offer excellent lubricating properties at elevated working temperatures and drawing speeds.

Tubol 431 has proved extremely effective for inner diameter lubrication of copper tube using the Cast & Roll production route, particularly on subsequent spinner-block draw passes.

Lubrication properties are complemented by good bright annealing, low fume and low chemical reactivity characteristics, which aid the production of top quality copper tubing. It is used in the production of copper tubes mainly for ACR applications.

Customer's individual working methods and technical requirements may require the selection of other products within Metalube's Tubol range of drawing lubricants.

Features and benefits

- Optimum lubricating properties to ensure long tool life and enhanced surface finish of the drawn tube
- Excellent bright annealing characteristics in heat treatment processes with inert, dry atmospheres
- Easier removal during annealing/purging than more conventional polymer oils

Global specialists in high-performance lubricants

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



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Tubol™ 431

Recommended instructions for use

Tubol 431 should be applied to the work piece in its neat form, by total loss or recirculation methods. This grade is suitable for application to both the inside and outside diameter of non-ferrous tubes.

Pack sizes

Tubol 431 is available in 200 litre drums

Technical data (typical values)

Property	Test method	Result
Concentrate appearance	MSTM 1	Amber fluid
Kinematic viscosity @ 40°C	MSTM 27	2100 cSt
Density at 20°C	MSTM 23	0.90 g.cm ⁻³

Storage

Store Tubol 431 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.

Issue date 07-20

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