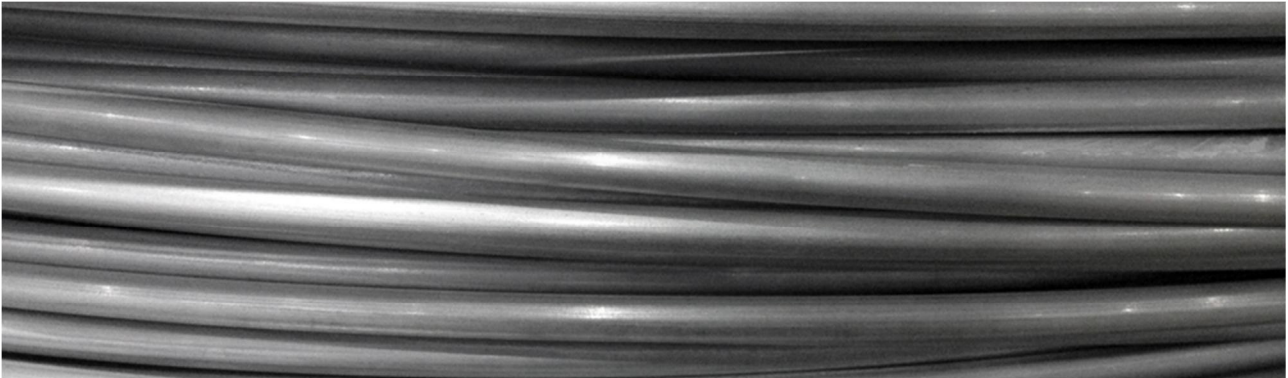




Metarol™ 463

Aluminium rod rolling lubricant



Description

Metarol 463 is a water soluble rolling lubricant specifically designed for the hot rolling of aluminium and aluminium alloy rod.

By utilising the best combination of natural and synthetic additive technologies Metarol 463 provides the optimum level of lubrication and protection for rolls and delivers outstanding surface finish on the rod. The inherently low foaming emulsifier and detergent system keeps systems clean and resists destabilisation by water hardness salts and dissolved ions resulting in significantly enhanced emulsion life.

Features and benefits

- Provides optimum hydrodynamic and boundary lubrication to protect rolls from aluminium pick-up and deliver outstanding surface finish on rolled rod.
- Excellent emulsion stability and resistance to soap formation extends service life thereby minimizing disposal and downtime costs.
- Maintains machines in a clean condition.
- Inherently low foaming.
- Excellent filterability on media (paper) type, hydrocyclone, centrifugal and settlement filtration systems.
- Extremely robust in use, minimal maintenance time and cost

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



Metarol™ 463

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 de-ionised water being used for subsequent replacement of evaporation losses, spillage etc. Bulk emulsion operating temperatures of 45 – 75 °C are recommended.

To prepare an emulsion always add Metarol 463 concentrate to water with adequate agitation – **never** add water to the concentrate.

Dilution range

Pure aluminium	4 – 8%
Aluminium alloys	10 – 14%

Pack sizes

Metarol 463 is available in 1000 litre IBC or 205 litre drums.

Technical data (typical values)

Property	Test method	Result
Concentrate appearance	MSTM 1	Clear brown oil
Emulsion appearance (10% in de-ionised water)	MSTM 9	Dense milky emulsion
Emulsion pH (10% in de-ionised water)	MSTM 18	9.4
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 concentration multiply the refractometer reading by the correction factor 1.02

e.g. Refractometer reading	=	7.0
Correction factor	X	1.02
Actual dilution	=	7.1%

Storage

Store Metarol 463 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 01-12

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