



## Metarol™ DB

### Rolling lubricant for non-ferrous metals



#### Description

Metarol DB is an emulsifiable lubricant designed for the rolling of non-ferrous metals such as copper, aluminium and brass.

By utilising the best combination of natural and synthetic additive technologies Metarol DB provides the optimum level of lubrication and protection for rolls and delivers outstanding surface finish. 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.

Metarol DB is also suitable for use on hot rolling mills for copper and aluminium rod and cold rolling and drawing of copper rod, strip and section.

#### Features and benefits

- Provides optimum hydrodynamic and boundary lubrication to protect rolls and deliver outstanding surface.
- 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.

Global specialists in high-performance lubricants

**Metalube Limited**, 4 Huntsman Drive, Northbank Industrial Park, Irlam, Manchester M44 5EG, UK  
Tel: +44 (0)161 775 7771 Fax: +44 (0)161 775 7511 [post@metalube.co.uk](mailto:post@metalube.co.uk) [www.metalube.co.uk](http://www.metalube.co.uk)

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



Cert No 2367QM8001



## Metarol™ DB

### 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 CaCO<sub>3</sub> hardness. Ideally, use water with an initial hardness of 60-100 ppm CaCO<sub>3</sub> to prepare a fresh emulsion, with de-ionised water being used for subsequent replacement of evaporation losses, spillage etc.

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

### Dilution range

Cold rolling copper rod, strip or section	3 – 10%
Hot rolling copper rod	1 – 5%
Hot rolling aluminium rod	4 – 12%

### Pack sizes

Metarol DB 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 (5% in de-ionised water)	MSTM 9	Dense milky emulsion
Emulsion pH (5% in de-ionised water)	MSTM 18	9.2
Density at 20°C	MSTM 23	0.91 g.cm <sup>-3</sup>

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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 1.04

e.g. Refractometer reading	=	3.0
Correction factor	X	1.04
Actual dilution	=	3.12%

### Storage

Store Metarol DB 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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