

Technical Data

Tubol™ Extrusion fluid

Extrusion quench additive



Description

Tubol Extrusion Fluid is primarily designed as an additive to the quench water in copper tube extrusion run-out tanks. The additive assists in the cooling and surface protection of hot extruded copper shell.

Tubol Extrusion Fluid dissolves readily in water to form a stable emulsion, which enhances the protection of the copper from discolouration (e.g. oxidation and water staining) and leaves a film on the surface for protection during subsequent handling and drawing operations.

Features and Benefits

- Helps to produce consistent bright coloured shells
- Good anti-corrosion characteristics on both copper and the steel components of the quench tank
- Assists in protecting the surface finish of the newly extruded material, prior to drawing
- Low carbon residues
- Aids the initial drawing pass

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, water with up to 200 ppm CaCO₃ hardness can be used.

To prepare an emulsion always add Tubol Extrusion fluid concentrate to water with adequate agitation – never add water to the concentrate. For further information consult the Metalube wire drawing lubricants guide.

Refer to the product safety data sheet for guidance on safe handling, storage and disposal.

Storage

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

The most up to date shelf-life information for Metalube products can be found on the certificate of analysis issued at the time of manufacture.

Pack Sizes

Code	Pack
F401325	200 Ltr barrel
F401320	1000 Ltr IBC

Dilution Range

Application	Dilution
Extrusion quench tanks	1 – 3%

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 2.5

e.g.	Refractometer reading	= 0.6
	Correction factor	X 2.5
	Actual dilution	= 1.6%

Technical Data

Tubol™ Extrusion fluid

Extrusion quench additive

**METALUBE®**

Technical Data

Property	Test method	Result
Appearance	MSTM 1	Clear light brown oil
Emulsion pH (10% de-ionised water)	MSTM 18	9.0
Density at 20°C	MSTM 23	0.95 g.cm ⁻³

Note: these values are typical only and do not constitute a specification

Limited warranty information

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective and fully satisfactory for the intended end use. We accept no liability for any loss and/or damage arising from a failure to store our products in accordance with the information contained in this technical sheet. Metalube Group's sole warranty is that our products will meet their quality control specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. To the fullest extent permitted by applicable law, Metalube Group specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Metalube Group disclaims liability for any incidental or consequential damages.

Metalube Group Ltd, 4 Huntsman Drive, Northbank Industrial Park, Irlam, Manchester M44 5EG, UK

Tel: +44 (0)161 775 7771 post@metalube.co.uk www.metalube.co.uk

Company registration number: 2263118; Company registered in England VAT registration number GB108244927