

## Technical Data

# Tubol™ SE 260 & SE 650



Semi synthetic lubricants for the drawing of non-ferrous tube, rod and section

### Description

Tubol SE 260 and SE 650 are low-to-medium viscosity, semi-synthetic lubricants designed for the cold drawing of copper tubes and rods.

They are optimised for OD finishing applications, inner groove (IGT) lubrication and Schumag-type machines, but may also be used for ID lubrication due to their higher cleanliness and lower tendency to form deposits compared to mineral oil-based products. Tubol SE 650 is additionally suitable for spinner block applications.

The Tubol range also includes specialist drawing lubricants for different processes.

### Features and Benefits

- Good lubrication providing excellent tool life and enhanced surface finish to the drawn tube
- Excellent bright annealing characteristics in heat treatment processes with inert, dry atmospheres
- Lower carbon residues than mineral oil-based lubricants
- Removes heavy lubricants from break-down draws due to solvency and flushing action
- Provides minimal lubricant carry-over.

### Recommended Instructions For Use

Products should be applied to the work piece in its neat form.

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

### Storage

Store products 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

Product	Code	Pack
SE 260	F408508	20 Ltr poly
SE 260	F408525	200 Ltr drum
SE 260	F408520	1000 Ltr IBC
SE 650	F405925	200 Ltr drum

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**METALUBE®**
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Property	Test method	SE 260	SE 650 Formerly Tubol 650
<b>Appearance</b>	MSTM 1	Clear amber fluid	Clear colourless fluid
<b>Kinematic viscosity at 40°C</b>	MSTM 27	260 cSt	650 cSt
<b>Kinematic viscosity at 100°C</b>	MSTM 28	22.5 cSt	50 cSt
<b>Viscosity Index</b>	Calculated	106	132
<b>Density at 20°C</b>	MSTM 23	0.89 g.cm <sup>-3</sup>	0.89 g.cm <sup>-3</sup>
<b>Residue TGA D50-550</b>	MSTM 91	<1.5%	<1.5%

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.

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