

## Technical Data

# Tubol™ PR fluid

Pilger and rolling mill lubricant



### Description

Tubol PR Fluid is a water-soluble oil specifically designed for rolling or casting of copper tubes and alloys.

Tubol PR Fluid has been formulated with high performance lubricity additives, ideal for use in both copper tube extrusion in Pilger mills or in tube rolling mills.

### Features and Benefits

- Excellent bright annealing characteristics
- Non staining and stable emulsion
- Excellent anti-corrosion characteristics
- Superior lubrication with high detergency and low foam
- Good tramp oil rejection
- Formaldehyde free

### 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 waters with up to 200 ppm CaCO<sub>3</sub> hardness can be used.

To prepare an emulsion always add Tubol PR fluid concentrate to water with adequate agitation – never add water to the concentrate.

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

### Storage

Store Tubol PR 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
F406825	200 Ltr barrel

### Dilution Range

Application	Dilution
Pilger mills	6 – 14%
Rolling mills	4 – 10%

### 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 1.03

e.g.	Refractometer reading	= 10.0
	Correction factor	X 1.03
	Actual dilution	= 10.3%

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Property	Test method	Result
<b>Appearance</b>	MSTM 1	Clear brown liquid
<b>Emulsion Appearance (10% de-ionised water)</b>	MSTM 9	Semi-translucent emulsion
<b>Emulsion pH (10% de-ionised water)</b>	MSTM 18	9.2
<b>Density at 20°C</b>	MSTM 23	0.95 g.cm <sup>-3</sup>

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

## Limited warranty information

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