



Cool-Tek™ 250

High performance, low oil semi-synthetic rollforming lubricant



Description

Cool-Tek 250 is a low mineral oil content, semi synthetic hybrid lubricant designed for the rollforming of ferrous metals including pregalvanized steel.

Cool-Tek 250 forms a highly detergent, stable emulsion that results in improved machine cleanliness and cleaner finished rollformed section. Specially selected lubricity additives provide optimal lubrication during the forming and subsequent cutting processes resulting in superior surface finish on finished sections.

Cool-Tek 250 contains a very strong corrosion preventative package leading to extended corrosion protection on both the internal and external bore of formed sections. The high level of additives in Cool-Tek 250 means it works well in smaller emulsion systems (<8000L) and is well suited for rolling furniture & decorative tubing and pregalvanised steel where the highest quality surface is desired.

Cool-Tek 250 has been designed to be used in conjunction with Meta-Shield W1000D (water based rust preventative) to provide additional corrosion protection on the external bore.

Features and benefits

- Gives optimum lubrication to provide outstanding surface finish
- Excellent fines handling and settling
- Keeps mills clean and produces very clean sections/tubes
- Provides excellent corrosion protection
- High resistance to excessive foaming
- Low odour, pleasant to use
- Suitable for a wide range of metals and machining processes
- Formaldehyde Free

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



Cool-Tek™ 250

Recommended instructions for use

Prior to filling sumps with Cool-Tek 250 emulsion always clean the system using *Troyshield FF5 system cleaner or equivalent to ensure that any previous biological contamination is eliminated.

Cool-Tek 250 concentrate should be added to water (never add water to concentrate). For the initial fill water with a hardness of approximately 100ppm CaCO₃ should be used. Low hardness water should be used for top-up of the emulsion (demineralised water where available).

Top-up of the concentrate should be done often to maintain the additive levels required for performance.

*Troyshield is a trademark of Troy Corporation

Dilution range

Cool-Tek 250 is designed to be used in the dilution range 3 to 10%. Optimum concentration is 5%.

The specific dilution required will depend on the type and gauge of the metal, speeds, water conditions etc. Please consult Metalube for guidance.

As a general rule harder alloys, higher speeds and harder water require a higher concentration.

Concentration monitoring

Solution 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 1.56

e.g. Refractometer reading	=	3.50
Correction factor	X	1.56
Actual dilution	=	5.46%

Pack sizes

Cool-Tek 250 is available in 1000 litre IBC, 205 litre drums or 20 litre containers.

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Technical Data



METALUBE®

Cool-Tek™ 250

Technical data (typical values)

Property	Test method	Result
Concentrate appearance	MSTM 1	Clear straw fluid
Solution appearance (5% in de-ionised water)	MSTM 9	Clear straw solution
Solution pH (5% in de-ionised water)	MSTM 18	8.80
Density at 20°C	MSTM 23	1.045 g.cm ⁻³
Corrosion Breakpoint	IP287	1.0%
Conductivity at 25°C (5% in de-ionised water)	MSTM 34	2470 µS

Storage

Store Cool-Tek 250 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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