



Cool-Tek™ 100

High performance, synthetic rollforming lubricant



Description

Cool-Tek 100 is a synthetic lubricant designed for the rollforming of ferrous metals including galvanized steel.

Cool-Tek 100 forms a highly detergent solution that results in improved machine cleanliness and cleaner finished sections/tubes/pipe. Specially selected lubricity additives provide optimal lubrication during the forming and subsequent cutting processes resulting in superior surface finish on finished sections.

Cool-Tek 100 contains a very strong corrosion preventative pack leading to extended corrosion protection on the internal and external bore of tubes/pipe and formed sections.

Cool-Tek 100 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

- Provides 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
- 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™ 100

Recommended instructions for use

Prior to filling sumps with Cool-Tek 100 emulsion always clean the system using *Troyshield FF5 system cleaner or equivalent to ensure that any previous biological contamination is eliminated.

Cool-Tek 100 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 100 is designed to be used in the dilution range 1.5 to 10%. Optimum concentration is 3%.

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 1.42

e.g. Refractometer reading	= 2.7
Correction factor	X 1.42
Actual dilution	= 3.83%

Pack sizes

Cool-Tek 100 is available in 1000 litre IBC, 205 litre drums or 20 litre containers.

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Technical data (typical values)

Property	Test method	Result
Concentrate appearance	MSTM 1	Clear yellow fluid
Solution appearance (5% in de-ionised water)	MSTM 9	Clear straw solution
Solution pH (5% in de-ionised water)	MSTM 18	9.5
Corrosion Breakpoint	IP287	0.5%
Density at 20°C	MSTM 23	1.094 g.cm ⁻³

Storage

Store Cool-Tek 100 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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