



## Technical Data Sheet

Product	Type
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### COUNTER RUST™ T-43

### Corrosion Inhibitor – Metal Protection

Water soluble borate ester corrosion inhibitor

#### Application

Counter Rust T-43 is a cost effective water soluble corrosion inhibitor. It is easily incorporated into soluble, semisynthetic and synthetic metalworking fluids, alkaline cleaners and final rinsing fluids.

Counter Rust T-43 is an excellent source of reserve alkalinity and a good buffering agent to help extend the life of metalworking fluids.

Dipping metal parts in a 5% solution of Counter Rust T-43 in water will leave a dry protective film for short term indoor protection from humidity. Counter Rust T-43 is also a good sump side additive to provide additional buffering and bio stability to fluids.

#### Typical Properties

Test	Typical
Appearance	Clear, slightly pale, viscous fluid
Specific gravity at 25° C	1.180
Boron, wt. %	5.5
Water wt. %	<3.0
Total amine value, mg KOH/g	580
pH at 1.0% in water	9.5
pH as supplied	10.0

#### Benefits

- Highly concentrated, cost-effective corrosion inhibitor for ferrous and non-ferrous metals
- Easily incorporated in all types of fluids including soluble, semi-synthetic, synthetic, alkaline cleaners and final rinsing fluids
- Adds bio stability to metalworking fluids
- Particular effective in vegetable oil based fluids
- Excellent source of reserve alkalinity

## Performance

### Corrosion on Cast Iron Chips (ASTM 4627-86)

	% in Water	pH	Corrosion
Counter Rust T-43	0.5	9.0	None

## Suggested Formulation Details

**Corrosion inhibitor for ferrous metals:** 0.5 – 1%

**Short term humidity protection:** 5% in water

**Corrosion inhibitor in synthetic and semisynthetic concentrates:** 8-12%

## Storage and Handling

Recommended Maximum Long Term Storage Temperature*	Ambient – Store in tightly closed drum
Recommended Minimum Temperature for Use	Ambient – use in well-ventilated place
Flash Point	None to boiling

\*Long term storage at temperatures above this may result in loss of performance.



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