



<b>Product</b>	<b>Type</b>
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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**

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

**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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