



**Product**

**Type**

**COUNTER RUST™ 140**

**Corrosion Inhibitor – Metal Protection**

**Versatile water soluble corrosion inhibitor**

**Application**

Counter Rust 140 is a hard water tolerant, low-foaming water-based corrosion inhibitor designed to protect all ferrous metals and some non-ferrous metals at low treat rates.

Counter Rust 140 is only partially neutralized. Further neutralizing with alkanolamines provides the formulator the flexibility to adjust pH to provide the overall desired performance properties..

Ethanolamine-free Counter Rust 140 is ideal for use in synthetic metalworking fluids, alkaline cleaners and water-based quenchant. It is soluble in water, glycols and some petroleum oils.

**Typical Properties**

Test	Typical
Appearance	Yellow Liquid
Specific gravity at 15.6° C	1.08
Pounds per gallon @15.6° C	9.0
pH as received	7.35
pH of a 1% solution 70/30 140/TIPA	8.1
Wt % Active	72.5

**Benefits**

- Effective protection for all ferrous and some non-ferrous metals at low treat rate
- Low foaming
- Hard water stable
- Leaves a crystalline free liquid film that doesn't require cleaning prior to additional machining
- Provides short-term corrosion protection from humidity
- Soluble in water, glycols and some petroleum oils

**Performance**

**Corrosion on cast iron chips (ASTM 4627-86)**

	% in Water	pH	Corrosion
Counter Rust 140	0.5	8.25	None

With additional alkanolamine for extra buffering

## Suggested Formulation Details

- Counter Rust 140 in partially neutralized. The formulator is free to further neutralize with a wide range of alkanolamines to the desired pH.
- Use at 10-20% in a metalworking fluid concentrate

## Storage and Handling

Recommended Maximum Long Term Storage Temperature*	Ambient
Recommended Minimum Temperature for Use	Ambient
Flash Point	None to boiling

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



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