

# Product Data

## NOX-RUST® 1000SF VCI Pouch Emitter

### Description

**Nox-Rust® 1000SF Pouch Emitter** is a breathable Tyvek bag filled with Daubert Cromwell's proprietary ferrous inhibitor in powder form. The VCI (volatile corrosion inhibitor) diffuses slowly out of the sealed bag, protecting metal surfaces against corrosion. The VCI powder provides continuous long and short-term corrosion protection for ferrous metals as well as aluminum. Protects exposed metals inside enclosure up to 900 cu ft.



### Features



#### Proven Daubert Cromwell corrosion inhibitor chemistry

- Long-lasting corrosion protection, even in the presence of moisture
- Prevents corrosion on metal surfaces in both vapor and contact phases
- Extends into deep and difficult to reach spaces, voids and recesses
- Non-toxic, safe and environmentally friendly.
- Does not contain phosphates, heavy metals, or nitrites
- Replaces hydrocarbon and solvent-based liquids, nitrogen blankets, desiccants and other less dependable or costly preservation alternatives
- Easy to use, safe to handle.
- Compatible with Daubert Cromwell VCI papers, films, foam, and emitters.

### Typical Applications



#### Typical Applications

- Interior metal surfaces of enclosed systems: Boilers, tanks, void spaces inside vessels, turbines, and steam or condensate pipelines – during extended periods of equipment inactivity such as during storage or lay-up
- Clean, dry corrosion protection for metal surfaces during storage and shipment
- Eliminates the need to fog or spray powders inside the enclosure.

### Guidelines for Use



#### Guidelines for Use

- Typically does not require any special surface preparation before packaging. However, if possible, wipe the surface clean of dust particles.
- Each Nox-Rust 1000SF Pouch Emitter will protect up to 900 cubic feet of enclosed space. The radius of protection is 6 feet. If the emitter is close to a surface such as the wall or the floor, the volume of space protected will be less (determined by the open space within 6 feet from the pouch).
- The VCI will take 36-48 hours to set up in the enclosed space. Set-up time can be reduced by blowing a low flow of air over the emitter. Stop the air movement after set-up is complete. If the void space is large and a person enters the void space, a self-contained breathing apparatus is recommended.
- Seal the space with the metals and the pouch emitter(s) inside.
- The system may need to be recharged or actively maintained during the lay-up period if there is a loss of VCI due to leakage from the enclosed space.

Also Available in Free-  
Flowing White Powder



**DAUBERT  
CROMWELL**

#### Nox-Rust® VCI Powder Product Family

Product	Packaging	Description	Protection
1000SF Powder	25 lb (11.4 Kg) box, 150 lb (68 Kg) drum	Free-Flowing White Powder	Ferrous
1000SF Pouch	8½" x 11" Pouch, Each	Pouch Emitter – Protects 900 ft³ of enclosed space	Ferrous
1010SFG Powder	25 lb (11.4 Kg) box, 150 lb (68 Kg) drum	<b>Fine Grind</b> Free-Flowing White Powder	Multi-Metal
1015 Pouch	3 ¾" x 4" pouch, each	Pouch Emitter – Protects 15 ft³ of enclosed space	Ferrous

12701 S. Ridgeway Ave | Alsip, IL 60803 USA | (800) 535-3535

Tel +1 (708) 293-7750 | E-mail: [info@daubertcromwell.com](mailto:info@daubertcromwell.com) | [www.daubertcromwell.com](http://www.daubertcromwell.com)



# Technical Data

## NOX-RUST® 1000SF VCI Pouch Emitter



### Physical Data

Physical Properties	Typical Values
Appearance	Breathable Tyvek bag with Daubert Cromwell ferrous inhibitor in powder form
Size	Sealed 8½" x 11" (22 cm x 28 cm) pouch
pH	6-7 (@1% aqueous solution)
Specific Gravity	1.26 at 25°C
Melting Point	Not Applicable
Flash Point	None
Odor	None to very slight
Protective Properties	
Aluminum	Protection
Steel, AISI 1010**	Protection
Stainless Steel, All Grades	Protection
Cast Iron	Protection
Brass, Red or White	Not suitable for applications with brass. Use Nox-Rust 1010SFG.
Bronze, including Naval	Not suitable for applications with bronze. Use Nox-Rust 1010SFG.
Copper	Not suitable for applications with copper. Use Nox-Rust 1010SFG.
Cadmium and Cadmium Plated	Recommend testing before use.
Chromium and Chromium Plated	Recommend testing before use.
Nickel and Nickel Plated	Recommend testing before use.
Lead or Solder	Recommend testing before use.
Tinplate	Recommend testing before use.

\* These results are typical values and are not specifications.

\*\* Protection times are based on proper protection from moisture and other environmental elements.

\*\*\* For best results, Daubert Cromwell always recommends testing before use.

### Storage

Store sealed, in unopened boxes, until ready to use. Keep out of direct sunlight in temperatures not to exceed 150 F (65°C).

### Shelf Life

12 months from date of shipping, when stored in the original, shipping container used by Daubert Cromwell and not in high humidity and not at high temperatures, or stored outside.

### Removal

Remove emitter pouch before restarting equipment. Ventilate the space. No further cleanup is required.

**WARRANTY** The data, statements and recommendations in this product specification sheet are based on testing, research and other development work, which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. Physical properties shown above represent typical values and are not intended for use in writing specifications. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and use. All products manufactured by us are warranted to be first class material and free from defects in material and

workmanship. Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other material and products. We make no warranty, express or implied, as to the suitability of any of our products for any particular use, and we shall not be subject to liability from any damages resulting from their use in operations not under our direct control. This warranty is exclusive of all other warranties, express or implied, and no representative of ours or any other person is authorized to assume for us any other liability in connection with the sale of our products.

JULY2020JAB

**DAUBERT  
CROMWELL**

12701 S. Ridgeway Ave | Alsip, IL 60803 USA | (800) 535-3535

Tel +1 (708) 293-7750 | E-mail: [info@daubertcromwell.com](mailto:info@daubertcromwell.com) | [www.daubertcromwell.com](http://www.daubertcromwell.com)



© 2020 Daubert Cromwell