

# Nox-Rust® 1200DC

## Water-Based Rust Preventive Liquid

## Technical Data Sheet

**Description** Nox-Rust 1200DC liquid is a silica-free water solution designed to protect interior metal surfaces of boilers, tanks, turbines, steam, and condensate pipelines. It provides continuous corrosion protection for ferrous metals and is compatible with copper and zinc galvanized steel. Commonly used during extended periods of equipment inactivity, during storage or lay-up, or during and after hydrostatic testing.

Nox-Rust 1200DC is clear, odorless and does not contain phosphates, heavy metals, or nitrites, and can replace hydrocarbon and solvent-based liquids that can be costly and unreliable. 1200DC can be applied by fogging or spraying and typically does not need to be removed prior to equipment restart.

- Key Features**
- Silica-free, water-based solution.
  - Removal not necessary prior to equipment restart.
  - Excellent protection for extended periods of equipment inactivity.



**Approvals**



**Guide for Use and Removal**

Prepare metal surfaces by removing any dirt, oil, grease, and loose rust according to job specifications or minimum SSPC-SP 1. Apply by pouring or fogging the liquid into voids and deep recesses or cavities in the system.

**Recommended Spray Setups:** Conventional – Binks 18 gun with 66/S tip/air-cap. Airless – Grayco 205-591 Bulldog. 0.015” tip, 17-13MPa (1900psi), 19mm (3/8”) ID hose. Equivalent equipment is acceptable.

**Use Rate:** When applying as an aqueous solution, dilute at 1:10 to 1:5 (inhibitor: water) using potable water. Close all external openings to properly contain the VCI. System can be left filled or drained.

**Typical coverage:** 19.6 sq. meter/liter (800wq. Ft./gal) 50 micron (2 mils) wet.

**Hydrostatic testing:** Add to test water @ 1:10 (inhibitor: water). Drain as best possible. It is not necessary to dry the vessel after hydrostatic test, and it should be sealed. Protection should last up to 6 months. For long term protection, use a 1:5 dilution.

Nox-Rust 1200 DC does not typically need to be removed. There is no build up because the powder is completely water-soluble and 100% silica-free. If removal is desired, use a simple cold-water flush water spray.

Note: The addition of any coatings or products other than those recommended by Daubert Cromwell over or under this product could result in chemical incompatibility, thus adversely affecting the performance of this product. Please contact your Daubert Cromwell Technical Service Representative for product recommendations.

**Storage**

Store sealed, in a dry location, out of direct sunlight in temperatures not to exceed 95°F (35°C) or below 50°F (10°C). Storage outside these conditions may affect shelf life.

**Shelf Life**

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

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### Water-Based Rust Preventive Liquid

#### Physical Data

Property	Typical Value or Range
Appearance	Clear to tinted
Viscosity	Similar to water
Pour point - °F (°C)	-10 (-23)
Specific gravity - g/mL	1.2 @77°F(25°C)
Weight per gallon, lbs (ASTM D1475)	n/a
pH	7.0-9.0 @1% aqueous solution
VOC	n/a
Non-Volatile, % by weight (ASTM D2369)	n/a
Flash point - °F (°C)	n/a
Penetration, cone, non-volatile fraction, dmm (ASTM D937)	n/a
Indoor Protection Time	Enclosed systems only. 6 to 12 months.
Outdoor Protection Time	Not recommended

#### Protection Capabilities

Contact your Daubert Cromwell Technical Service Representative for more information on the best protection solutions for your part or assembly.

#### 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. Actual values may vary. 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 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 for 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.



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