

Product Data

Nox-Rust® 1200DC

Rust Preventive Liquid

Description



Nox-Rust 1200DC liquid is 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 galvanized steel. Used to protect metals during extended periods of equipment inactivity, during storage or lay-up, or during and after hydrostatic testing.

Nox-Rust 1200DC can be applied by fogging or spraying. The clear, odorless liquid typically does not need to be removed prior to equipment restart.

Features



Proven Daubert Cromwell corrosion inhibitor chemistry

- Provides continuous long and short-term corrosion protection for ferrous metals. Compatible with copper and galvanized steel.
- Prevents corrosion on metal surfaces in both vapor and contact phases.
- 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.
- Safe and environmentally friendly.
- OEM Approved



Typical Applications



Typical applications for Nox-Rust 1200DC liquid:

- Preserve or lay-up boilers, either wet or dry.
- Protect internal surfaces of compressors, turbines, engines, tanks, heat exchangers, pipe systems.
- Protect steam lines, condensate returns, heating and cooling systems.
- Preserve tubes, pipes and vessels.
- Hydrostatic testing



How to Use Nox-Rust 1200DC

Prepare metal surface by removing dirt, oil, grease and loose rust according to job specifications. Minimum SSPC-SP 1.

Apply to boilers, heat exchangers, piping and other liquid containment or conveyance systems by pouring or fogging the liquid into voids and deep recesses or cavities in the system.

Typical spray set up: Conventional—Binks 18 gun with 66/S tip/air-cap. Airless spray—Grayco 205-591 Bulldog, .015" tip, 17---13 MPa (1900 psi), 19 mm (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 (800 sq. ft./gal) @ 50 micron (2 mils) wet

For hydrostatic testing, add Nox-Rust 1200DC to the hydrostatic test water @ 1:10 (inhibitor:water). Drain as best possible. It is not necessary to dry the vessel after hydrostatic test, but it should be sealed. Protection should last up to 6 months. For long term protection, use a 1:5 dilution.



Removal

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

**DAUBERT
CROMWELL**

12701 S. Ridgeway Ave | Alsip, IL 60803 USA | (800) 535-3535
Tel +1 (708) 293-7750 | E-mail: info@daubertcromwell.com | www.daubertcromwell.com



Technical Data

Nox-Rust® 1200DC

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Physical Data

Physical Properties	Typical Values
Color	Clear to tinted liquid
Solubility	Soluble in water
pH	7-9 (@1% aqueous solution)
Specific Gravity	1.2 g/mL @ 25° C
Melting point	Not applicable
Flash Point	None
Odor	None to very slight
Pour Point	-23°C (-10°F)
Viscosity	Similar to water

Approvals

RoHS compliant, OEM approved.

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).

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. Store unused VCI liquid in a cool, dry place, away from direct sunlight. Storage outside these conditions voids this statement.

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.

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