

Product Data

Nox-Rust® VCI Bore Tubes



Description

VCI bore tubes prevent corrosion on ferrous metal surfaces inside hollow cylinders, barrels, piping, tubing and similar hard-to-reach spaces. Constructed per U.S. Army drawing for VCI-treated bore tubes, each is a tight, rigid, spirally wound length of Daubert Cromwell's military grade paper. The corrosion inhibitors in each tube deliver safe, dry, effective rust protection without oils or liquids. Non-toxic, recyclable and re-pulpable.

Features



Proven Daubert Cromwell corrosion inhibitor chemistry

- Corrosion inhibitor devices for firearms, spares, equipment
- Spirally-wound tubing constructed to government drawing 7266299
- Made with VCI paper that is qualified to U.S. Dept. of Defense QPD for Mil-Prf-3420
- Non-toxic, nitrite-free.
- Safe, effective VCI chemistry protects steel, cast iron, and ferrous alloys
- Fully recyclable and re-pulpable
- Contain no heavy metals, chromates, molybdates, phosphates, or chlorides
- Easy to use; no special handling required
- Replaces oil, grease, and traditional corrosion prevention methods
- Parts remain clean, dry and ready to use immediately
- Compatible with Daubert Cromwell VCI papers, films, and emitters.

Applications

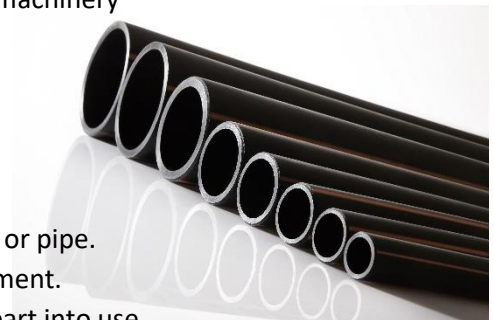


Typical applications

- Hollow lengths of pipes, tubes
- Narrow voids and recesses in steel equipment and machinery
- Barrels and spares
- Cylindrical spaces

To Use:

- Metal should be clean and dry.
- Place one length of VCI treated tube into the barrel or pipe.
- Close both ends to maintain the packaging environment.
- Remove tube from metal before using putting the part into use.
- VCI paper tube with 0.15" OD can be used for hollow metals with a diameter of up to 1".
- VCI paper tube with 0.75" OD can be used in pipe of up to 3" diameter.
- For long term protection or other sizes, consult a Daubert Cromwell packaging specialist.



Technical Data

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Physical Data

Protection	OD	Protects
Minimum 24 months, indoors, in a closed and proper packaging environment.	0.15" (4mm) 0.75" (19mm)	Up to 1" (25mm) Up to 3" (76mm)
Metals Protected	Corrosion Protection	
Mild Carbon Steel, Cast Iron	Provides full protection in contact and vapor phases	
Aluminum (1100)	Compatible, light protection in contact and vapor phases	
Zinc or Zinc Galvanized Steel	Not recommended ⁴ . May provide light protection. Uniwrap® MPI or Uniwrap 200 recommended	
Copper	Compatible. Coppertex® or UWMPI or Uniwrap 200 recommended	
Brass ¹	Compatible. Coppertex or UWMPI or Uniwrap 200 recommended	
Bronze	Compatible. Coppertex or UWMPI or Uniwrap 200 recommended	
Silver	Not recommended ⁴ . Silver Saver® recommended	
Category A ²	Not recommended ⁴	
Category B ³	Not recommended ⁴	

1. Brass alloys in the "red" area containing up to 20% zinc will act like copper; brass in the "white" area containing over 20% zinc and will act like Category A metals.

2. Category A metals include zinc, cadmium, nickel, cadmium-plated steel, and nickel-plated steel. These are prone to contact corrosion sensitivity with inhibitor chemicals but will be protected as shown in the vapor phase.

3. Category B metals include lead, antimony, babbitt alloys, solder, magnesium or magnesium alloys.

4. "Not recommended" does not indicate incompatibility. Compatibility testing is always recommended. Our "not recommended" rating indicates that there may be more effective Daubert Cromwell products for these applications. Your sales representative can help recommend the optimal product for specific applications.

Storage

Store in a cool, dry place, away from direct sunlight. Do not store outdoors, in high humidity, or at temperature above 80°F (27°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.

Approvals

RoHS, TL8135, constructed to government drawing 7266299. Spirally wound VCI paper is on the U.S. Dept. of Defense Qualified Product List for VCI-treated paper, per Mil-Prf-3420.



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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