

Product Data

Nox-Rust Vapor Wrapper 7090 Military Grade VCI Paper

Description



Nox-Rust Vapor Wrapper 7090 corrosion inhibitor (VCI) paper is a 70 lb/ream (114 g/m²) natural kraft saturated with Daubert Cromwell's proprietary corrosion inhibitor formulation for ferrous metals. It is designed and tested to provide long-term protection of ferrous metals in government and military applications. 7090 paper is listed on the U.S. Department of Defense Qualified Products List (QPL) for Mil-PRF-3420, Class 1, Style A (heavy duty, kraft, flat carrier impregnated with corrosion inhibitor). NSN 8135-00-664-4010.

Features



Proven Daubert Cromwell corrosion inhibitor chemistry

- U.S. Department of Defense QPL Mil-PRF-3420, Class 1, Style A.
- Protects steel, cast iron, and ferrous alloys
- Safe and easy to use; no special handling required
- Non-toxic VCI chemistry; no heavy metals, chromates, phosphates, or secondary amines
- Replaces oil, grease, and traditional corrosion prevention methods
- Parts remain clean, dry and ready to use immediately
- Compatible with Daubert Cromwell rust preventive liquids, emitters and films
- Available in rolls, cut sheets, custom sizes
- RoHS compliant; fully recyclable and repulpable

Typical Applications



Transport, export, storage of:

- Fabricated metal components and assemblies
- Aerospace, aviation industry components
- Firearms, spares, heavy equipment, machinery
- Assemblies, frames, stampings, etc.
- Bearings, gears, valves and pistons
- Brake parts, automotive parts, military parts

To use, wrap or layer clean parts in 7090 paper. Place within 12" (200-300mm) of the metal. The corrosion inhibitors form a protective molecular layer on the surface of the metal. When the parts are unwrapped, the protective layer immediately begins to dissipate. Parts are clean, corrosion-free and ready to use. No further processing is necessary prior to use.



Military Grade Corrosion Inhibitor Papers

Product	Basis Weight	Construction	Description	Protection
4060	35 lb/57 g/m ²	Natural Kraft	Long-term protection	Ferrous
VW60H	60 lb/98 g/m ²	Natural Kraft	Long-term protection. Nitrite-free	Ferrous
7090	70 lb/114 g/m ²	Natural Kraft	Long-term protection	Ferrous

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Technical Data

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Physical Data

Physical Properties		Typical Values	
	Units	Typical Value	Test Method
Finished Basis Weight	lb/ream (g/m ²)	80 (130)	T-410
Caliper (thickness)	mil (μm)	6.5 (165)	T-411
Mullen Burst Strength	psi (kPa)	90 (620)	T-403

		Machine Direction	Cross Direction	
Elmendorf Tear Strength	g/ply (N/ply)	120 (1.18)	145 (1.42)	T-414
Tensile Strength	lb/in (kN/m)	60 (10.5)	30 (5.3)	T-404
Elongation	%	2	5	T-494

Protection Time

Inside Dry Storage 24 months minimum

Mild Carbon Steel, Cast Iron	Provides full protection in contact and vapor phases in compliance with Mil-PRF-3420.
Aluminum (1100)	Compatible, light protection in contact and vapor phases.
Zinc or Zinc Galvanized Steel	Not recommended ⁴ . May provide light protection. UWMPI or Uniwrap [®] 200 recommended.
Copper, Copper Alloys	Compatible. Coppertex [®] or UWMPI or Uniwrap [®] 200 recommended.
Brass, Brass Alloys ¹	Compatible. Coppertex [®] or UWMPI or Uniwrap [®] 200 recommended.
Bronze, Bronze Alloys	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 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, OEM Approved, qualified to U.S. Department of Defense Mil-Prf-3420H.



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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