



TECHNICAL DATASHEET

PRODUCT NAME – RUST-X VCI Anti-Static Bag

PRODUCT CODE – VCI AL-Bar Anti-Static Bag

PRODUCT DESCRIPTION

RUST-X VCI AL-Bar anti-static film is manufactured using a patented process and structure. This transparent metal-in static shielding bag is designed to provide a static safe environment for sensitive electronic devices.

Open top and Zip Top styles are available. The bags are heat sealable.

Rust-X AL-Bar Anti-Static bag manufactured from a polyester, metal, and polyethylene laminate. The polyester dielectric in concert with the metal layer is intended to provide shielding of Electrostatic Discharge (ESD) and to help minimize the penetration of electric field.

This is ideally used for packaging of metal products or for equipment packaging for long term storage and transportation.

VCI stands for Volatile Corrosion Inhibitors. VCI Plastics make use of VCI Technology to protect metallic components packed in them. RUST-X VCI Plastics works on SMP technology for speedy moisture passivation.

The VCI molecules work by evaporation and condensation on the cooler metal parts and prevent corrosion wherever they settle. In effect a corrosion inhibiting layer comprising of

macromolecules is deposited on the part.

This molecular bag formed inhibits the forward reaction of corrosion by limiting/stopping the electron flow, altering pH as well as by forming a physical barrier to oxygen and water vapour.

Steel Components packed in RUST-X VCI can be protected for up to 10 years when combined with our other VCI Solutions.

FEATURES

Provide a static safe environment for sensitive electronic devices.

APPLICATIONS

- 3 D bags or 2 D bags or Zip Lock bags & can be used as per the desired dimensions and device can be packed and sealed in VCI bags using heat sealer.
- Storage in open, storage in warehouses for longer periods and other related schemes.

PACKAGING AND STORAGE

Available in Bags, Envelopes. Store in a cool dry place and always keep Bags sealed when not in use.



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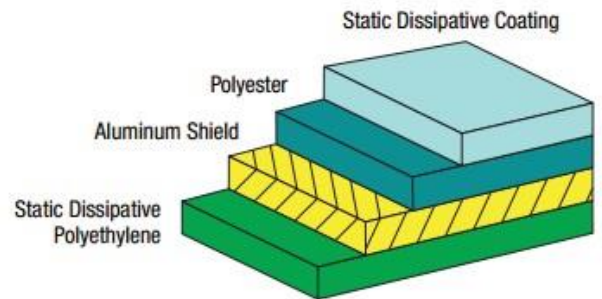
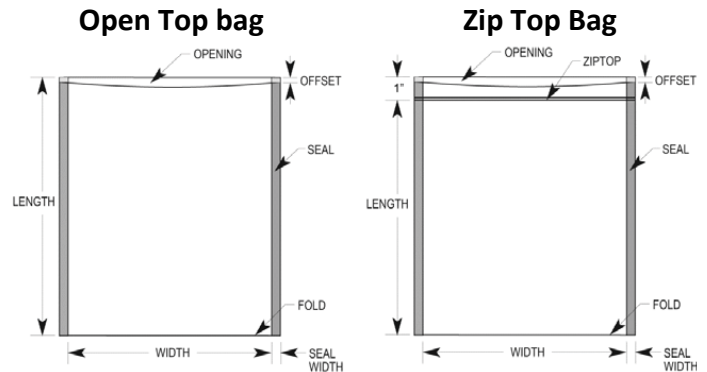
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TECHNICAL SPECIFICATION

Physical Properties	Test Method	Value
Thickness	MIL-STD- 3110 C	2.8
	Method 2065	Mills,0.071
Tensile Strength	ASTM D 882	
MD		200 kg/cm ²
TD		150 kg/cm ²
Puncture resistance	ASTM D 882	12 lbs,53 N
Seal Strength	ASTM D 882	11 lbs, 48 N
Heat Seal Temperature		149-190 °C
Heat Seal pressure		30-70 PSI
Heat Seal Time		0.5-0.6 seconds
Transparency		40%
Marking Adhesion	IPC-TM- 650 2.4.1	Pass
ESD Shielding	ANSI/ESD STM 11.31	<10 NJ
Surface resistance Interior	ANSI/ ESD STM 11.11	<1x10 ¹¹ ohms
Surface resistance Exterior	ANSI/ ESD STM 11.11	<1x10 ¹¹ ohms
Static Decay	ETS 406D	<2 Seconds
Silicone	FTIR	Not Detected

PRODUCT PICTURES



DISPOSAL

Recommendation: Do not allow product to reach sewage system.

Disposal of product or waste must comply with official



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local regulations.

Packaging that cannot be recycled must be disposed in the same manner as the product.

HEAVY METALS DECLARATION

RUST-X Rust Preventive products do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the restricted substances listed in Article 4(1) of the RoHS Directive. RUST-X Rust Preventive Oils are also REACH Compliant for exports to the European Union.

SAFETY INFORMATION

- Keep Out Of Reach Of Children
- Keep Container Tightly Closed
- Not For Internal Consumption
- Consult Material Safety Data Sheet For More Information
- Safe for people
- This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom and CA WHMIS regulations.
- Rust-X VCI chemistry is safe for sensitive electronics.
- Rust-X VCI chemistry imposes No galvanic effects, residues or changes in the properties of metals. The protective molecules dissipate upon opening of package.

DECLARATION

This Data sheet and information it contains is considered to be accurate at the date of printing. No representation or warranty, expressed or implied is made as to the accuracy or completeness of the data and information contained in this publication. It is the User's obligation to evaluate and use products safely and within the scope advised in the data sheet and to comply with all applicable laws and regulations.

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on validations and tests conducted by HI TECH INTERNATIONAL/RUST-X or its partners and are believed to be reliable, but the accuracy or completeness thereof is not guaranteed. We warrant our products will be free from defects when shipped to customer. Our obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Rust-X, Hi Tech International or its partners or agent of the claimed defect within 3 months after shipment of product to customer. Customer shall pay all freight charges for replacement products. We shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. And any financial claims shall be limited to the value of the film sold.



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Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of the company. The foregoing warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or of fitness for a particular purpose. In no case shall HI TECH INTERNATIONAL/RUST-X be liable for incidental or consequential damages.

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