

Editorial Contact:
Cortec® Advertising Agency

Jeni Duddeck
(651) 429-1100 Ext. 1114

jduddeck@cortecvci.com

Company Contact:
Cortec® Corporation

Julie Holmquist
(651) 429-1100 Ext. 1194

jholmquist@cortecvci.com

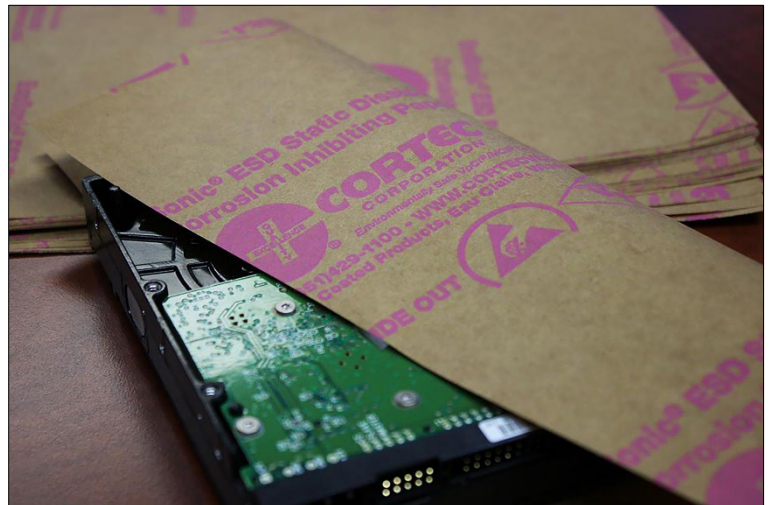


Attention: Editor
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PRESS RELEASE



Take a New Approach to ESD Packaging for Electronics

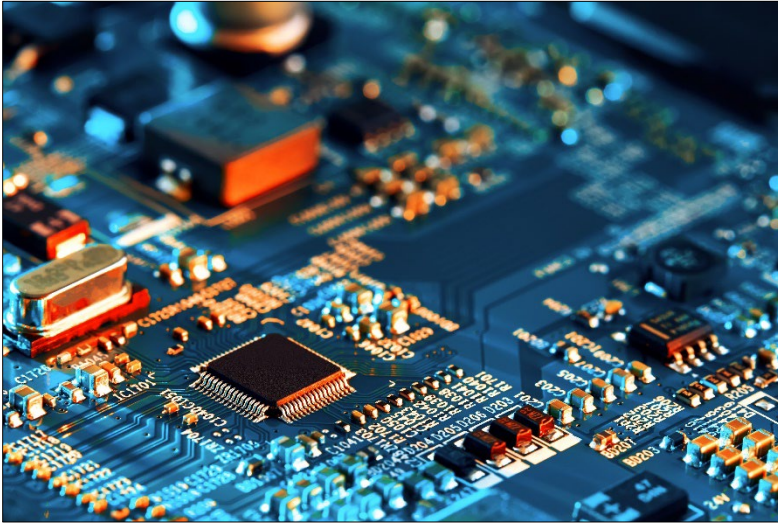
In the world of electronics manufacturing, ESD managers have the critical role of ensuring that components do not get damaged by electrostatic discharge (ESD). Corrosion protection is often a lower priority but should also be on the radar for manufacturers who want their electronics to reach the end user in good condition. Fortunately, Cortec® has led the industry in designing two-in-one packaging solutions that meet both needs and today is eager to turn the spotlight on [EcoSonic® ESD Paper](#) as a sustainable alternative to standard plastic ESD bags.



Corrosion + ESD Protection

Shipping is a vulnerable time for electronics as they pass through a variety of climates and temperature fluctuations that could prompt condensation on subassemblies inside a package. Any corrosion or even staining will call the integrity of an electronic into question when the end user unwraps it. Cortec® therefore coats EcoSonic® ESD Paper with Vapor phase Corrosion Inhibitors (VCI/VpCI®) to protect multi-metals from oxidizing. VpCI® molecules in the coating vaporize and diffuse throughout a packaging enclosure, adsorb on metal surfaces, and form a protective molecular layer that does not need to be cleaned off when the module is

installed. To address ESD concerns, EcoSonic® ESD Paper also has a static-dissipative coating to eliminate static electricity buildup. With this coating, the ESD properties of EcoSonic® ESD Paper meet the requirements of ANSI/ESD STM11.11 for surface resistance and MIL-STD 3010C Method 4046 for static decay rate. The final result is a two-in-one recyclable VCI/ESD paper.



them in place and create an enclosure. EcoSonic® ESD Paper can also be used to create an instant static-dissipative workspace by laying the paper on a work bench where employees assemble or inspect sensitive electronic parts.

Take a New Approach to Electronics Packaging

ESD managers and packaging engineers who need static dissipation should also consider whether a specific application needs corrosion protection. With EcoSonic® ESD Paper, they have the additional option of choosing recyclable paper over plastic—in sync with the growing demand for environmentally responsible electronics packaging options. [If you are ready to try a new approach to ESD packaging for electronics, contact Cortec® today.](#)

Keywords: ESD packaging, packaging for electronics, VCI paper, packaging solutions for electronics, corrosion protection, replacing plastic bags, Cortec, corrosion on electronics, ESD paper, corrosion inhibitors

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Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001:2015, ISO 14001:2015, & ISO/IEC 17025:2017 certified. Cortec® Website: <http://www.cortecvci.com> Phone: 1-800-426-7832 FAX: (651) 429-1122

Replacing Plastic Bags for Everyday Use

Even while Cortec® has been creating dual corrosion inhibiting / static-dissipative packaging for electronics, plastic bags have remained the main packaging format for a variety of reasons. EcoSonic® ESD Paper takes an important departure from this norm by replacing plastic with recyclable paper sourced from trees, a renewable resource. This answers the call for paper packaging options from electronics manufacturers in Europe and Asia. EcoSonic® ESD Paper can be easily applied by wrapping it around an electronic and taping the folds to hold



EcoSonic® ESD Paper powered by Nano VpCI®
Static Dissipative Corrosion Inhibiting Paper

DESCRIPTION	HIGH PERFORMANCE VpCI® PACKAGING
<p>Cortec® EcoSonic® ESD Paper combines corrosion inhibiting and static dissipative properties in a single, recyclable paper for your valuable items. This product eliminates static electricity buildup through the use of a coating made from nanoscale particles of EcoSonic® ESD Paper, which is the most effective in an environment consisting of air and humidity. It is a two-in-one solution, combining the benefits of a conventional static-dissipative coating (consisting of ultra-fine carbon particles) with a corrosion inhibitor (consisting of ultra-fine zinc particles). Typical applications include: printed circuit boards, integrated circuits, microprocessors, capacitors, resistors, and other sensitive electronic components.</p> <p>The static-dissipative properties of EcoSonic® ESD Paper are tested in accordance with ASTM D257-02 (surface resistance) and ASTM D257-02 (volume resistance) in units of 10¹¹ Ω (200 °C) and 10¹² Ω (200 °C) and 10¹¹ Ω (200 °C) and 10¹² Ω (200 °C).</p> <p>PACKAGING & STORAGE</p> <p>Custom sizes and quantities available upon request.</p> <p>To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).</p> <p>Shelf life: 1 year</p>	 <p>FEATURES</p> <ul style="list-style-type: none">• Suitable for various types of metals and alloys• Conforms to performance specifications MIL-PRF-3420G (vapor inhibiting ability), MIL-STD-197E (static dissipation), and MIL-STD-2012C (method 4046)• Corrosion inhibitor, protection from electrostatic discharge, and packaging into one step• Temperature and pH independent static-dissipative properties• Contains no nitrites, phosphates, silicates, chlorides, or other heavy metals• Fully recyclable, repulpable• Effective against aggressive environments including humidity, SO₂, H₂S, and gaseous corrosion from dissimilar metals <p>APPLICATION</p> <p>EcoSonic® ESD Paper can be used to protect any material capable of being damaged by electronic discharge, such as printed circuit boards, integrated circuits, PCB components, telecommunications equipment, electrical panels, electrical enclosures, batteries, and numerous other materials involving electronics with multilevel packaging.</p> <p>EcoSonic® ESD Paper is easy to use. There are no chemical concentrations to calculate, no chemical fumes or application systems to maintain. Just wrap your products in the paper and fold the edges together with the printed logo side facing out. Use adhesive tape as needed to hold paper folds in place. (Not protected by Cortec® ESD Paper can be painted, welded, and soldered. EcoSonic® ESD Paper does not influence physical properties of even the most sensitive electrical components, including conductivity and resistance.)</p> <p>Products should be packaged immediately after cleaning, being completely dried of residual water. Keep EcoSonic® ESD Paper as close to the surface of the item to be protected as practical, leaving no barrier between the paper and the metal surface to be protected.</p> <p>Use approximately 1 square foot (0.09 m²) of VpCI® paper for every 3 square feet (0.28 m²) of surface to be protected, and 1 square foot (0.09 m²) of VpCI® paper for every 0.5 cubic foot (0.014 m³) of void space.</p>