VpCI® Electrical and Electronic Products
Safeguard Your Electronics & Electricals

Cortec® offers a full-service line of corrosion inhibiting materials in convenient-to-use sizes and formats. VpCI® emitting systems, packaging, wipes, sprays, and absorbent material combine to offer corrosion solutions for any phase of the electronic/electrical life-cycle, from manufacturing and shipping to final installation and maintenance.

**VpCI® Emitting Systems for Electricals & Electronics**

VpCI® emitting systems include cups, foams, and pouches that are easy to install inside everything from electronics packages to non-ventilated electrical control cabinets and junction boxes in operation. These emitting systems release Vapor phase Corrosion Inhibitors into the enclosed space. The vapor deposits on metal surfaces and forms a non-conductive molecular layer that helps reduce corrosion in the enclosure and does not interfere with electrical, optical, or mechanical surface properties.

**Reliability, Service Life, Cost Reduction**

With Cortec® emitting systems, sensitive equipment is protected against corrosion, thereby extending service life and reducing the cost of expensive repairs.

**Features and Benefits of VpCI® Emitting Systems**

- Easy installation or packaging
- Little to no surface prep
- Continuous protection against humidity, condensation, aggressive industrial atmospheres, chlorides, and dissimilar metal corrosion
- Up to 24 months of protection
- Nitrite-, silicone-, and phosphate-free

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**Emitter Cups**

**EcoEmitter®**

Self-adhesive VpCI® emitting cups constructed partly from biobased materials.
- Easy installation
- No spraying, wiping, or dipping required

**VpCI®-105 Emitter & VpCI®-111 Emitter**

Self-adhesive cups that emit Vapor phase Corrosion Inhibitors through a breathable Tyvek® membrane.*
- Nitrite-, silicone-, and phosphate-free
- Economical and long-lasting protection
- NSN 6850-01-406-2060 (VpCI®-105)
- NSN 6850-01-408-9025 (VpCI®-111)

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**Emitter Foams/Non-Wovens**

**BioPad®**

A flexible corrosion inhibiting device constructed from biobased non-woven material.
- Extra-strength source of Vapor phase Corrosion Inhibitors
- Contains 58% USDA certified biobased content

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*Tyvek® is a registered trademark of DuPont or its affiliates. Copyright© 2021 DuPont de Nemours Inc.
BioEmitter™

Partially biobased VpCI® emitting pad packaged in vented cardboard box for easy application inside electrical cabinets.

- Includes hanging hole and four self-adhesive patches for installation
- No nitrites, silicones, phosphates, or heavy metals
- No adverse effects on electrical properties

VpCI®-101 Device

VpCI® emitting foam designed to provide corrosion protection to metal components in small non-ventilated boxes or cabinets.

- Self-adhesive backing
- No nitrites, silicones, or phosphates
- NSN 6850-01-338-1392

EcoDevice®

A partially biobased version of the VpCI®-101 Device.

- Self-adhesive backing
- Protects small enclosures from corrosion

VpCI®-130 Series Foam

Flexible VpCI® emitting foam in a variety of sizes for small or large compartments.

- Multi-metal protection
- Nitrite- and chromate-free
- VpCI®-133 has self-adhesive backing
Features & Benefits of VpCI® Technologies for Electronics/Electricals

- Continuous long-term corrosion protection
- Antistatic options
- Economical to apply
- Effective in polluted and humid atmospheres
- No interference with electrical, optical, or mechanical surface properties
- No removal required prior to startup
- Can commonly be used during equipment operation
- Compact space-saving designs suitable for OEM applications
- Peace of mind during shipping/storage
- Less frequent maintenance
- Cost reduction
  - Time
  - Labor
  - Materials

Packaging Films & Bags

EcoSonic® VpCI®-125 Static Dissipative Film & Bags/
EcoSonic® VpCI®-125 HP

Vapor phase Corrosion Inhibitor film and bags with static dissipative properties for packaging sensitive electronics.
  - ESD properties conform to MIL-PRF-81705 D
  - Multi-metal corrosion protection
  - High-performance (HP) version available
  - Made with or without corrosion inhibitors upon request

Eco Works® ESD

Commercially compostable film and bags for packaging electronics.†
  - Available with 10% or 30% biobased content
  - ESD protection only (no corrosion inhibitors)
Wipes

Corwipe® 500
Strong non-woven wipes for cleaning electronics.
- Antistatic
- Removes light rust
- Inhibits corrosion

Sprays

ElectriCorr™ VpCI®-238
An electronic cleaner containing Vapor phase Corrosion Inhibitors for use in sheltered applications.
- Displaces moisture
- Leaves behind thin protective film
- Does not alter electrical resistance or magnetic properties
- NSN# 6850-01-413-9361

ElectriCorr™ VpCI®-239
A multifunctional outdoor cleaner/corrosion inhibitor designed for aggressive environments.
- Displaces moisture
- Leaves behind thin protective film
- Ideal for exposed contacts and relays
- Does not alter electrical resistance or magnetic properties
- NSN #6850-01-600-4422

ElectriCorr™ VpCI®-248
A non-flammable version of ElectriCorr™ VpCI®-238 for cleaning and protection in sheltered environments.
- Displaces moisture
- Leaves behind thin protective film
- Does not change conductivity for low-voltage circuits
- Non-flammable

ElectriCorr™ VpCI®-286
A corrosion inhibiting conformal coating for manufacturing and repair of circuit boards.
- Continuous corrosion protection
- Fast drying
- UV indicator
- Extends board life

Absorbents

Corrosorber®
Plastic self-stick cup absorbs hydrogen sulfide, volatile mercaptans, and other corrosive gases through a breathable membrane. Can be used in conjunction with VpCI® Emitters.
- Quick installation
- Non-hazardous
- Irreversible reaction
- Changes color as used up

Corrosorber® Pouch
A uniquely designed pouch containing powder that absorbs corrosive sulfurous gases such as hydrogen sulfide and volatile mercaptans.
- Convenient
- Compact
- Non-hazardous
- Changes color as used up
- Windowed

Desicorr® VpCI® Pouches/Desicorr NW VpCI®
Two-sided pouch containing desiccant and Vapor phase Corrosion Inhibitor Technology.
- Dual desiccant/corrosion inhibitor action
- Easy to insert into package manually or automatically
- No cleaning or degreasing required

TESTING
Metals placed in a salt fog chamber used for ASTM B117 testing experience accelerated corrosion if not protected. The pictures below compare the condition of RAM sticks after 90 hours in the test chamber. The top two were unprotected. The bottom two were protected with ElectriCorr® VpCI®-239.
<table>
<thead>
<tr>
<th>Product</th>
<th>Protection</th>
<th>Packaging/Size</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>EcoEmitter®</td>
<td>8.8 ft³ (0.25 m³)</td>
<td>2.25 x 1.27&quot; (5.7 x 3.2 cm); 10 cups per unit; custom orders</td>
<td>Operating, packaged, and stored electrical equipment, marine navigation and communication equipment, aerospace electrical controls, electric motors, switching equipment, fuse boxes, medical equipment, electrical wireways, terminal boxes, scientific and measuring instruments, telecommunications equipment, control panels for manufacturing and processing equipment</td>
</tr>
<tr>
<td>VpCI®-105 Emitter</td>
<td>5 ft³ (0.14 m³)</td>
<td>2.25 x 0.75&quot; (5.7 x 1.9 cm); 20/carton</td>
<td></td>
</tr>
<tr>
<td>VpCI®-111 Emitter</td>
<td>11 ft³ (0.31 m³)</td>
<td>2.25 x 1.25&quot; (5.7 x 3.2 cm)</td>
<td></td>
</tr>
<tr>
<td>EcoEmitter™</td>
<td>1.5 ft³ (42 L)</td>
<td>2 x 6&quot; (5 x 15.24 cm)</td>
<td>250/carton</td>
</tr>
<tr>
<td>VpCI®-101 Device</td>
<td>1 ft³ (28 L)</td>
<td>3 x 1.25&quot; (7.6 x 3.175 cm)</td>
<td>50/carton</td>
</tr>
<tr>
<td>VpCI®-130 Series Foam</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VpCI®-131</td>
<td>1.5 ft³ (42 L)</td>
<td>2 x 10 x 0.25&quot; (5.1 x 25 x 0.64 cm)</td>
<td>250/carton</td>
</tr>
<tr>
<td>VpCI®-132</td>
<td>8 ft³ (0.23 m³)</td>
<td>10 x 10 x 0.25&quot; (25 x 25 x 0.64 cm)</td>
<td>250/carton</td>
</tr>
<tr>
<td>VpCI®-133</td>
<td>0.25 ft³ (7 L)</td>
<td>Adhesive backing; 1 x 1 x 0.25&quot; (2.5 x 2.5 x 0.64 cm); 1000/carton</td>
<td></td>
</tr>
<tr>
<td>VpCI®-136</td>
<td>0.25 ft³ (7 L)</td>
<td>1 x 1 x 0.25&quot; (2.54 x 2.54 x 0.64 cm); 1000/carton</td>
<td></td>
</tr>
<tr>
<td>VpCI®-137</td>
<td>10 ft³ (0.3 m³/m²)</td>
<td>132&quot; x 54&quot; x 0.25&quot; (3.7 m x 1.35 m x 0.64 cm); 1 roll/carton</td>
<td></td>
</tr>
<tr>
<td>VpCI®-150 Adhesive Backed Foam Tape</td>
<td>0.4 ft³/in (4.4 L/cm)</td>
<td>12&quot; x 0.75&quot; x 0.25&quot; (3.7 m x 19 cm x 0.64 cm); 6 rolls/carton</td>
<td></td>
</tr>
<tr>
<td>VpCI®-170 Adhesive Backed Foam Tape</td>
<td>1.0 ft³/in. (11.1 L/cm)</td>
<td>20&quot; x 2&quot; x 0.25&quot; (6.1 m x 5.1 cm x 0.6 cm); 1 roll/carton</td>
<td></td>
</tr>
<tr>
<td>Cor-Pak® 1-MUL Pouch</td>
<td>1 ft³ (28 L)</td>
<td>2.5 x 2.75&quot; (6.35 x 6.99 cm)</td>
<td>flat pouches; 300/carton</td>
</tr>
<tr>
<td>Cor-Pak® 8-MUL Pouch</td>
<td>8 ft³ (0.23 m³)</td>
<td>4.0 x 6.9&quot; (10.16 x 17.54 cm)</td>
<td>semi-flat pouches; 100/carton</td>
</tr>
<tr>
<td>VpCI®-308 Pouch</td>
<td>35.3 ft³ (1 m³)</td>
<td>6 x 10 x 0.5&quot; (15.3 x 25.4 x 1.3 cm)</td>
<td>pouches; 50/carton</td>
</tr>
<tr>
<td>BioPad®</td>
<td>1.5 ft³ (42 L)</td>
<td>2 x 6&quot; (5 x 15.24 cm)</td>
<td>250/carton</td>
</tr>
<tr>
<td>BioEmitter™</td>
<td>50 ft³ (1.4 m³)</td>
<td>10.75 x 10.75 x 0.25&quot; (27 x 27 x 8 cm)</td>
<td>vented carton</td>
</tr>
<tr>
<td>VpCI®-308 Pouch</td>
<td>8 ft³ (0.23 m³)</td>
<td>4.0 x 6.9&quot; (10.16 x 17.54 cm)</td>
<td>semi-flat pouches; 100/carton</td>
</tr>
<tr>
<td>VpCI®-308 Pouch</td>
<td>35.3 ft³ (1 m³)</td>
<td>6 x 10 x 0.5&quot; (15.3 x 25.4 x 1.3 cm)</td>
<td>pouches; 50/carton</td>
</tr>
<tr>
<td>Foams/Non-Wovens</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BioEmitter™</td>
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<td>vented carton</td>
</tr>
<tr>
<td>Electrical cabinets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EcoDevice®</td>
<td>1.5 ft³ (42 L)</td>
<td>3 x 1.25&quot; (7.6 x 3.175 cm)</td>
<td></td>
</tr>
<tr>
<td>Packaging Films &amp; Bags</td>
<td>Protectors enclosed space</td>
<td>2-6 mils (50-150 µm), 50” (1.3 m) max. tube size; custom-size bags (heat-sealable or zipper closure), film, and tubing</td>
<td>For storage and/or packaging of sensitive electronic equipment in corrosive conditions; for wrapping or inserting with packaging material</td>
</tr>
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</tr>
<tr>
<td>EcoSonic® VpCI®-125 Static Dissipative Film &amp; Bags/ EcoSonic® VpCI®-125 HP</td>
<td>Protects enclosed space</td>
<td>1-3 mils (25-75 µm)</td>
<td>For storage and/or packaging of sensitive electronic equipment; for wrapping or inserting with packaging material</td>
</tr>
<tr>
<td>Eco Works® ESD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wipes</td>
<td>Corwipe® 500</td>
<td>NA</td>
<td>Test equipment, computers, PC boards, aircraft and satellite components, audio and video equipment, power terminals, any sensitive raw or painted metal parts or equipment</td>
</tr>
<tr>
<td>Sprays</td>
<td>ElectriCorr™ VpCI®-238</td>
<td>50 ft²/can (4.65 m²/ can) (varies)</td>
<td>Integrated circuitry, bus bars, electrical stations, generators, junction boxes, electric motors, electrical contacts, PCBs</td>
</tr>
<tr>
<td></td>
<td>ElectriCorr™ VpCI®-239</td>
<td>50 ft²/can (4.65 m²/ can) (varies)</td>
<td>Outdoor integrated circuitry, bus bars, electrical connections, generators, junction boxes, electrical outlets, electric motors</td>
</tr>
<tr>
<td></td>
<td>ElectriCorr™ VpCI®-248</td>
<td>50 ft²/can (4.65 m²/ can) (varies)</td>
<td>Integrated circuitry, bus bars, electrical stations, generators, junction boxes, electric motors, electrical contacts, PCBs where flammability is a concern</td>
</tr>
<tr>
<td></td>
<td>ElectriCorr™ VpCI®-286</td>
<td>240-320 ft²/gal @ 1 mil (6-8 m²/L @ 25 µm) (varies)</td>
<td>Manufacture and field repair of printed circuit boards</td>
</tr>
<tr>
<td>Absorents</td>
<td>Corrosorber®</td>
<td>10 ft³ (283.2 L)</td>
<td>2.3 x 1.27” (5.8 x 3.2 cm); 10 cups/carton</td>
</tr>
<tr>
<td></td>
<td>Corrosorber® Pouch</td>
<td>Changes color when exhausted</td>
<td>2.5 x 2.5” (6.35 x 6.35 cm) pouch; 300/carton</td>
</tr>
<tr>
<td></td>
<td>Desicorr® VpCI® Pouches/ Desicorr NW VpCI®</td>
<td>Unit 1/6: 1 ft³ (28 L)</td>
<td>2.75 x 2.5 x 0.125” (7 x 6.4 x 0.6 cm); 300/carton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unit 1: 5 ft³ (140 L)</td>
<td>7 x 4 x 0.125” (17.8 x 10.2 x 0.6); 300/carton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unit 4 (NW): 20 ft³ (560 L)</td>
<td>6 x 8 x 0.75” (15 cm x 20 cm x 2 cm); 300/carton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unit 8 (NW): 40 ft³ (1120 L)</td>
<td>6 x 12 x 0.75” (15 x 30 x 2 cm); 300/carton</td>
</tr>
</tbody>
</table>
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Quality Management System (ISO 9001 Certified)

World Class Customer Service

World Class Environmental Commitment

Cortec® commits to continued development of processes and products that are useful, non-hazardous to the environment, and recyclable whenever possible.

An Ethical and Respectful Company Culture

Respect and treat our colleagues, customers, and vendors as we would our own family members.

Environmental Management System

(ISO 14001 Certified)

Cortec's strong environmental concern is demonstrated in the design and manufacturing of products that protect materials of all kinds from environmental degradation. A strong commitment to produce recyclable products made from sustainable resources has been and will be our future policy. This brochure can be recycled.

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Cortec® Laboratories, Inc. is the first lab in our industry that has received ISO/IEC 17025 Certification, which ensures quality in recording and reporting data, as well as calibrating equipment within the laboratory.