



"Your Corrosion Inhibitor Partner"



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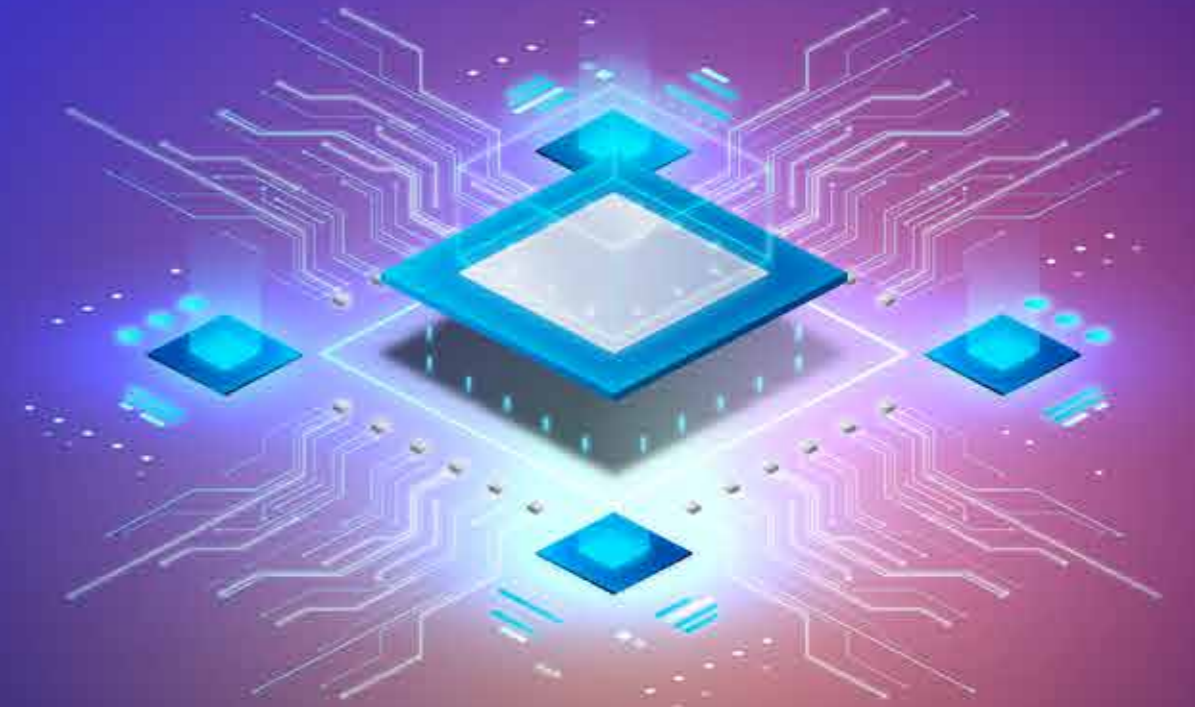
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## VpCI® Electrical and Electronic Products



# 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

### 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)

### EMITTER CUPS

#### EcoEmitter®

Self-adhesive VpCI® emitting cups constructed partly from biobased materials.

- Easy installation
- No spraying, wiping, or dipping required

### 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

### 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

### Eco Device®

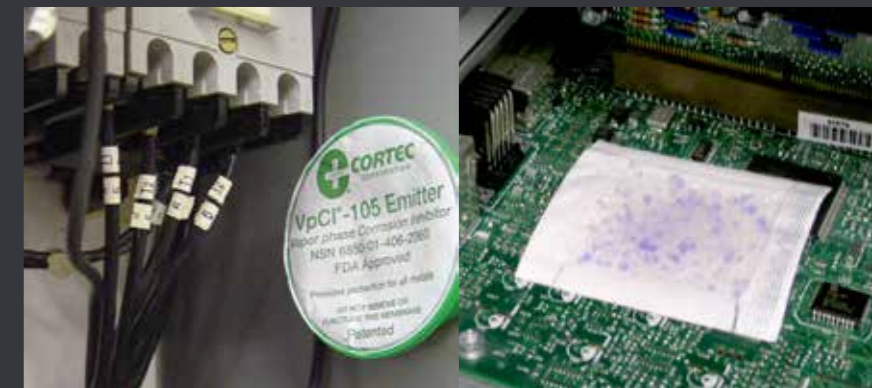
A partially biobased version of the VpCI®-101 Device.

- 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



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

## EMITTER POUCHES

### Cor-Pak® 1-MUL/8-MUL Pouches

Pouches that contain Vapor phase Corrosion Inhibitors released through a breathable Tyvek® membrane.\*

- Multi-metal protection
- NSN 6850-01-470-2737 (1-MUL).

### VpCI®-308 Pouch

A breathable pouch that releases Vapor phase Corrosion Inhibitors for the protection of ferrous metals, aluminum, copper, and bronze.

- Extra-strength source of VpCI® for large volumes
- Yellow metals protection

### 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

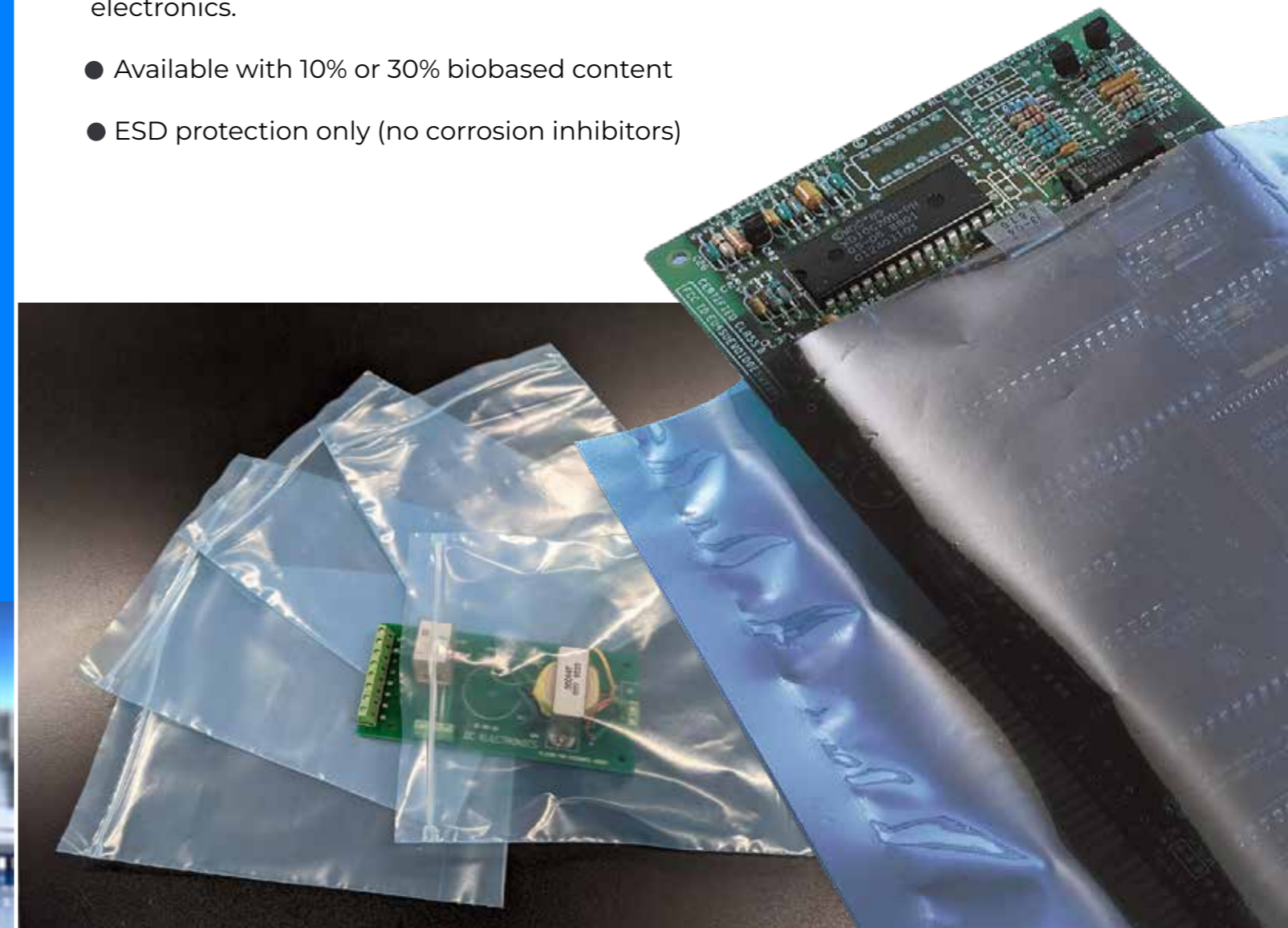
Vapor phase Corrosion Inhibitor film and bags with static dissipative properties for packaging sensitive electronics.

- 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)



## 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®-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

### 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



## WIPES

### Corwipe® 500

Strong non-woven wipes for cleaning electronics

- Antistatic
- Removes light rust
- Inhibits corrosion

## TEST

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.



# 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

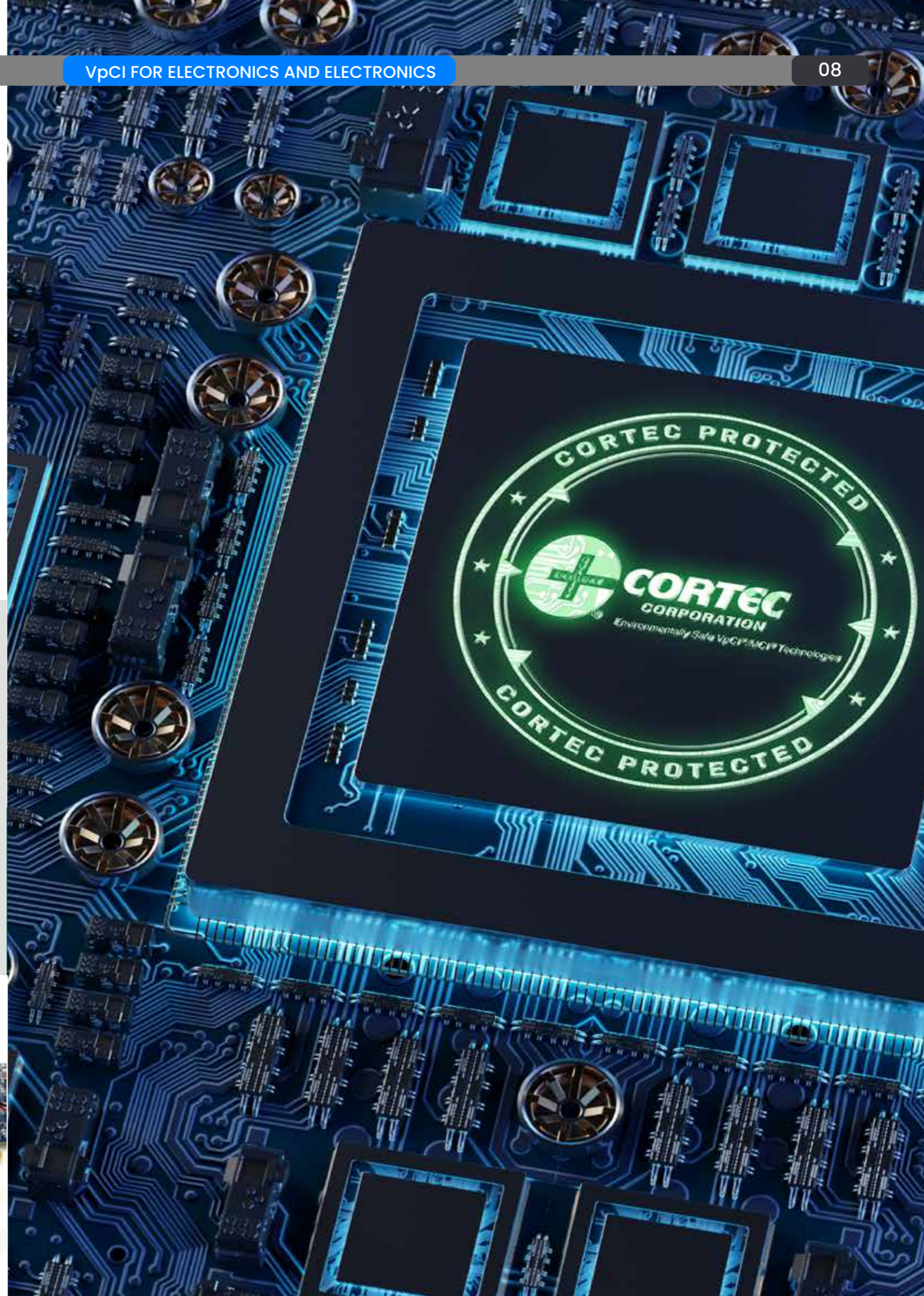
A uniquely designed pouch containing powder that absorbs corrosive sulfurous gases such as hydrogen sulfide and volatile mercaptans.

- 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



# PRODUCT GUIDE

		Product	Protection	Packaging/Size	Applications
CUPS		EcoEmitter®	8.8 ft³ (0.25 m³)	2.25 x 1.27" (5.7 x 3.2 cm); 10 cups per unit; custom	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
		VpCI®-105 Emitter	5 ft³ (0.14 m³)	2.25 x 0.75" (5.7 x 1.9 cm); 20/carton	
		VpCI®-111 Emitter	11 ft³ (0.31 m³)	2.25 x 1.25" (5.7 x 3.2 cm) 10/carton	
EMITTER	FOAMS / NON-WOBENS	BioPad®	1.5 ft³ (42 L)	2 x 6" (5 x 15.24 cm) 250/carton	Electronics packaging
			8 ft³ (0.23 m³)	8 x 8" (20.32 x 20.32 cm) 250/ carton	
			15 ft³ per ft² (4.5 m³/m²)	Custom rolls	
		BioEmitter™	50 ft³ (1.4 m³)	10.75 x 10.75 x 0.25" (27 x 27 x 8 cm) vented carton	Electrical cabinets
		EcoDevice®	1.5 ft³ (42 L)	3 x 1.25" (7.62 x 3.175 cm)	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
		VpCI®-101 Device	1 ft³ (28 L)	3 x 1.25 x 0.25" (7.6 x 3.2 x 0.6 cm) 50/ carton	
	VpCI®-130 Series Foam				
		VpCI®-131	1.5 ft³ (42 L)	2 x 10 x 0.25" (5.1 x 25 x 0.64 cm) 250/ carton	
		VpCI®-132	8 ft³ (0.23 m³)	10 x 10 x 0.25" (25 x 25 x 0.64 cm) 250/ carton	
		VpCI®-133	0.25 ft³ (7 L)	Adhesive backing; 1 x 1 x 0.25" (2.5 x 2.5 x 0.64 cm); 1000/carton	
		VpCI®-136	0.25 ft³ (7 L)	1 x 1 x 0.25" (2.54 x 2.54 x 0.64 cm); 1000 / carton	
		VpCI®-137	10 ft³ (0.3 m³/m²)	132' x 54" x 0.25" (39.6 m x 1.35 m x 0.64 cm); 1 roll/ carton	
		VpCI®-150 Adhesive Backed Foam Tape	0.4 ft³/in (4.4 L/cm)	12' x 0.75" x 0.25" (3.7 m x 1.9 cm x 0.6 cm) 6 Roll/ Carton	
		VpCI®-170 Adhesive Backed Foam Tape	1.0 ft³/in. (11.1 L/cm)	20' x 2" x 0.25" (6.1 m x 5.1 cm x 0.6 cm); 1 Roll/ Carton	
	POUCHES		Cor-Pak® 1-MUL Pouch	1 ft³ (28 L)	2.5 x 2.75" (6.35 x 6.99 cm) flat pouches; 300/carton
		Cor-Pak® 8-MUL Pouch	8 ft³ (0.23 m³)	4.0 x 6.9" (10.16 x 17.54 cm) semi-flat pouches; 100/carton	
		VpCI®-308 Pouch	35.3 ft³ (1 m³)	6 x 10 x 0.5" (15.3 x 25.4 x 1.3 cm) pouches; 50/ carton	Large control panels, electric power supplies, shipping and layup

		Product	Protection	Packaging/Size	Applications
Packaging Films & Bags		EcoSonic® VpCI®-125 Static Dissipative Film & Bags/ EcoSonic® VpCI®-125 HP	Protects enclosed space	2-6 mils (50-150 µm), 50" (1.3 m) max. tube size; custom-size bags (heat-sealable or zipper closure), film, and tubing	For storage and/or packaging of sensitive electronic equipment in corrosive conditions; for wrapping or inserting with packaging material
		Eco Works® ESD	Protects enclosed space	1-3 mil (25-75 µm)	For storage and/or packaging of sensitive electronic equipment; for wrapping or inserting with packaging material
Wipes		Corwipe® 500	n/a	5 x 5" (12.7 x 12.7 cm) towelettes; 25/flip-top container	Test equipment, computers, PC boards, aircraft and satellite components, audio and video equipment, power terminals, any sensitive raw or painted metal parts or
Sprays		ElectriCorr™ VpCI®-238	50 ft²/can (4.65 m²/can) (varies)	6 cans/carton; also available in 5 gal (19 L) pails, 55 gal (208 L) drums, liquid totes, and bulk	Integrated circuitry, bus bars, electrical stations, generators, junction boxes, electric motors, electrical contacts, PCBs
		ElectriCorr™ VpCI®-239	50 ft²/can (4.65 m²/can) (varies)	6 cans/carton; also available in 5 gal (19 L) pails, 55 gal (208 L) drums, liquid totes, and bulk	Outdoor integrated circuitry, bus bars, electrical connections, generators, junction boxes, electrical outlets, electric motors
		ElectriCorr™ VpCI®-248	50 ft²/can (4.65 m²/can) (varies)	6 cans/carton; also available in 5 gal (19 L) pails, 55 gal (208 L) drums, liquid totes, and bulk	Integrated circuitry, bus bars, electrical stations, generators, junction boxes, electric motors, electrical contacts, PCBs where flammability is a concern
		ElectriCorr™ VpCI®-286	240-320 ft²/gal @ 1 mil (6-8 m²/L @ 25 µm) (varies)	6 cans/carton; also available in 5 gal (19 L) pails, 55 gal (208 L) drums, liquid totes, and bulk	Manufacture and field repair of printed circuit boards
Absorbents		Corrosorber®	10 ft³ (283.2 L)	2.3 x 1.27" (5.8 x 3.2 cm); 10 cups/carton	Environments with H2S and corrosive gases
		Corrosorber® Pouch	Changes color when exhausted	22.5 x 2.5" (6.35 x 6.35 cm) pouch; 300/carton	
		Desicorr® VpCI® Pouches/Desicorr NW VpCI®	Unit 1/6: 1 ft (28 L)	2.75x2.5x0.125" (7x6.4x0.6 cm); 300/ Carton	Electronics packaging
		Unit 1: 5 ft (140 L)	7 x 4 x 0.125" (17.8 x 10.2 x 0.6); 300/ Carton		
		Unit 1: 5 ft (140 L)	6 x 8 x 0.75" (15 cm x 20 cm x 2 cm); 300/ Carton		
		Unit 8 (NW): 40 ft (1120 L)	6 x 12 x 0.75" (15 x 30 x 2 cm); 300/ Carton		





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## DEYAP ABOUT US

*Deniz Yapi Sanayi ve Tic. A.S. in 1992 to carry out corrosion prevention and surface cleaning works, DEYAP is the Turkish distributor and licensor of Cortec Corporation and Mykal, the leading companies in the world.*

*Our company, which realized the supply (1992), production and project design (1995) of VpCI for the first time in Türkiye, provides the production of VpCI film and paper products specific to the demands of its customers in its 2500 m<sup>2</sup> production area located in Kocaeli Dilovasi and the supply of anti-corrosion chemicals, dehumidifiers, surface cleaning chemicals and auxiliary packaging materials. All of its production is carried out under ISO - 9001:2015 quality system.*

