



HIGH PERFORMANCE VpCI® PACKAGING

VpCI®-145

Static Dissipative Corrosion Inhibiting Paper



PRODUCT DESCRIPTION

Cortec® VpCI-145 Static Dissipative Corrosion inhibiting paper combines corrosion inhibiting and static-dissipative properties to provide a complete packaging paper for your valuable items. This product eliminates static electricity buildup through the use of an environmentally friendly coating made from soybean oil that is coated onto the surface of the paper. Cortec VpCI-145 performs better on the static half life test (a test with an environment consisting of little or no humidity) than papers with conventional anti-stat coatings consisting of Alkyl Ammonium Chlorides, typical ethoxylated amines, typical imidazolines, phosphated esters, and nonionic based antistat coatings. The antistat protection from Cortec VpCI-145 is also thermally stable in excess of 392°F (200°C), pH stable between 2 and 11 at temperatures in excess of 100°F (38°F) for several days. In addition, Cortec VpCI-145 will provide contact, vapor, and barrier phase corrosion inhibition for ferrous and nonferrous metals, as well as conforming to the requirements of performance specification MIL-PRF-3420G. Simply wrap your sensitive electronic metal items in Cortec VpCI-145, and rest assured, that your valuable items will be protected from static electricity buildup and corrosion. Cortec VpCI-145 paper is fully recyclable / repulpable, biodegradable, non-toxic, and does not contain any nitrites, phosphates, silicates, or other hazardous compounds.

Made from the highest quality neutral natural kraft paper, without the use of chlorine or other bleaching. This eliminates package contamination found with other competing corrosion inhibiting papers. Cortec VpCI-145 is easy to use. There are no chemical concentrations to calculate, no chemical tanks or application systems to maintain. Just wrap your products in the paper, and fold the edges together. Use adhesive tape as needed to hold paper folds in place. Parts protected by Cortec VpCI-145 can be painted, welded, and soldered. Cortec VpCI-145 does not influence physical properties of even the most sensitive electrical components, including conductivity and resistance.

TYPICAL APPLICATIONS

Cortec VpCI-145 Static Dissipative corrosion inhibiting paper can be used to protect any material capable of being damaged by electrostatic discharge, such as printed circuit boards, integrated circuits, PCB components, telecommunications equipment, electrical panels, electrical enclosures, batteries, and numerous other materials involving electrical with multimetals.

FEATURES

- One product for all ferrous and non-ferrous metals
- Conforms to Performance Specifications MIL-PRF-3420G and MIL-PRF-81705D (Static Decay rate and Surface Resistivity)
- Combines corrosion inhibition, protection from electrostatic discharge and packaging into one step
- Temperature and pH independant antistat properties
- Non-toxic. Contains no nitrites, phosphates, silicones, chromates, or other heavy metals.
- Fully recyclable, repulpable.
- Effective against aggressive environments including humidity, SO₂, H₂S and galvanic corrosion from dissimilar metals.,



PERFORMANCE

ESD Properties conforms to MIL PRF-81705 D

- Surface Resistivity (ASTM B 257)
Between 1×10^5 and $10^{12} \Omega/\text{sq.}$
- Static Decay Rate (Method 3046, Federal Std. 101C)
Less than 2 seconds

Corrosion Inhibiting Properties conform to:

- MIL-PRF-3420G

METHOD OF APPLICATION

Products should be packaged immediately after cleaning, being completely dried of residual water. Keep Cortec VpCI-145 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.

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 (0.01 m³) of void space. For long-term storage of up to ten years, enclose the wrapped product in an airtight package.

STANDARD CONSTRUCTION

Neutral natural kraft paper, coated with VpCI and static dissipative material. The paper contains printed logo on reverse side to the coating. Also available in creped form.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY SEALED

NOT FOR INTERNAL CONSUMPTION

CONSULT SAFETY DATA SHEET FOR MORE INFORMATION

TYPICAL PROPERTIES

Property	TAPPI Method	Unit	VpCI-145	
Basis Weight, lbs	T-410	Lbs/3000ft ² (g/m ²)	35±2 (57±3)	60±3 97±5
Caliper (thickness)	T-411	Mils (µm)	3.7 (93)	6.7 (170)
Tear-MD	T-411	gms	32	114
Tear-CD	T-411	gms	45	135
Smoothness VpCI side	T-538	sheffield	200	280
Smoothness	T-538	sheffield	250	300

CD = Cross Direction

MD = Machine Direction

METALS PROTECTED

- Carbon Steel
- Stainless Steel
- Galvanized Steel
- Cast Iron
- Aluminum Alloys
- Copper
- Brass ($\leq 30\%$ Zn)
- Solder

PACKAGING AND STORAGE

Custom sizes and constructions available upon request, in both a 35lbs and 60 lbs/3000sq. ft. paper.

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's 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 Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

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