



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

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

DESCRIPTION

Cortec® EcoSonic® ESD 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 a coating made from soybean oil. EcoSonic® ESD Paper performs better on the static half life test (a test with an environment consisting of little or no humidity) than papers with conventional static-dissipative coatings consisting of alkyl ammonium chlorides, typical ethoxylated amines, typical imidazolines, phosphated esters, and nonionic based anti-static coatings. The static-dissipative protection from EcoSonic® ESD Paper is also thermally stable in excess of 392 °F (200 °C) and pH stable between 2 and 11 at temperatures in excess of 100 °F (38 °C) for several days. EcoSonic® ESD Paper is fully recyclable/repulpable, and does not contain any nitrites, phosphates, silicates, or other hazardous compounds.

PACKAGING & STORAGE

Custom sizes and construction available upon request.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 1 year

HIGH PERFORMANCE VpCI® PACKAGING



FEATURES

- Suitable for various types of metals and alloys
- Conforms to performance specifications MIL-PRF-3420G (vapor inhibiting ability), ANSI/ESD STM11.11 and MIL-STD 3010 C Method 4046 D
- Combines corrosion inhibition, protection from electrostatic discharge, and packaging into one step
- Temperature and pH independent static-dissipative properties
- Contains no nitrites, phosphates, silicates, chromates, or other heavy metals
- Fully recyclable, repulpable
- Effective against aggressive environments including humidity, SO₂, H₂S, and galvanic corrosion from dissimilar metals

APPLICATION

EcoSonic® ESD 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 electronics with multimetals.

EcoSonic® ESD Paper 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 with the printed logo side facing out. Use adhesive tape as needed to hold paper folds in place. Parts protected by EcoSonic® 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.

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.

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.

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METALS PROTECTED

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

PERFORMANCE

ESD properties meet the requirements of ANSI/ESD STM11.11 and MIL-STD 3010C Method 4046:

Surface Resistance (ANSI/ESD STM11.11)

Acceptable Range: 1.0×10^5 to 1.0×10^{11}
Actual Results Range: 1.0×10^8 to 1.0×10^{11}

Static Decay (MIL-STD 3010C Method 4046)

Passing Test: <2 seconds at a 10% cutoff threshold
Actual Average Results: <0.2 seconds

TYPICAL PROPERTIES

Property	Unit	Value	
Basis Weight	lbs/3000 ft ² (g/m ²)	38.3±2.3 (62.3±3.7)	
Caliper	mils (μm)	4.2 (107)	
Tear Strength	grams	MD*	65
		CD*	77
Burst Strength (Mullen Test)	psi (kPa)	37 (255)	

*MD - Machine Direction

*CD - Cross Direction

Note: Typical values represent average laboratory values and are intended as guides only, not as specifications.

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