



Ground Zero Electrostatics ZEROSTAT STATIC CONTROL CARPET

Tropics Series ZEROSTAT STATIC CONTROL CARPET



Whether you have a networked office, 911/ EMS facility or high tech electronic manufacturing environment, ZeroStat™ static control carpet tiles and broadloom offers permanent ESD protection for your mission critical and ESD vulnerable application. There are several grades of anti-static, Lov kV rated carpet that merely reduce the electrostatic charge by using a temporary topical anti-static coating. When you choose ZeroStat™ FiberFusion™ technology, you choose forever! Ground Zero has constructed ZeroStat™ extreme service carpeting with advanced proprietary ESD FiberFusion™ technology, which incorporates industrial grade, crush-resistant, solution-

dyed nylon designed to outlast the structure of your facility. Engineered and time-tested for high traffic and aggressive wear environments that demand superior resistance to 24/7 use-and-abuse, ZeroStat™ Carpeting is the touchstone for static control carpeting and incorporates an ANSI/ESD S20.20 certified program.

Over-engineered, ZeroStat™ Carpeting features redundant heavy 0.44 denier conductive yarn fiber interwoven and twisted throughout every yarn bundle to create infinite permanent contact points in every square inch of finished product. Our design concept at this phase of construction was engineered to unite our advanced ZeroStat™ FiberFusion™ technology with our Comfort-Cushion & UniStat backing systems for enhanced ergonomic comfort and exceptional sound absorption qualities.

Designed and developed by engineers for the technically advanced, Ground Zero's ZeroStat™ Carpet premeditated design adopts the (3) primary models of ESD events: Human Body Model (HBM), Machine Model (MM) and Charged Device Model (CDM). Using these models as the basis for our overall stringent ESD protective design, ZeroStat™ is guaranteed and reliable ESD protection for every environment and application. So if your program requires a Carpet that meets ANSI/ESD S20.20 "Class 0" ESD criteria, ZeroStat™ is the final word.

ZeroStat™ was born in response to the growing need for advanced ESD protection in our global communications facilities, high-end electronic assembly plants, air traffic control towers and mission critical emergency dispatch centers. Ground Zero has created the world's finest ESD tactical defense system to dramatically increase productivity and employee comfort, while providing permanent ESD protection to safeguard you ESDS equipment and devices.

Our cost-effective ESD Carpet systems provide you and your organization with:

- Standard 26 oz. Heavy Commercial Face Weight
- 24/7 Use-and-Abuse Crush Resistant Fiber Technology
- Adhesive Options Allowing for Installation over Existing Flooring
- Advanced FiberFusion™ Technology for Permanent ESD Protection
- Infinite Electrical Contact Points for the most Demanding Applications
- Lifetime ESD Protection & Electrical Performance Warranty
- Concept-to-Completion Design Selection w/ 27 Colors
- Featured Ergonomic Comfort Cushion Backing System
- Industries Lowest Body Voltage Generation (BVG) Rating
- ANSI/ESD S20.20 Compliant for Class 0 Device Criteria
- Full 15 Year Warranty



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Performance that meets the requirements of high tech work environments

- ☀ ESD control carpet that offers truly conductive / dissipative performance
- ☀ Designed to keep voltages on workers at the lowest levels possible
- ☀ With appropriate footwear, personnel voltages can remain below 20V

Conductivity is permanent and reliable

- ☀ Does not depend on finishes or sprays to maintain ESD control properties
- ☀ Features 0.44-denier conductive fibers in each yarn bundle. The conductive carpet yarn is tufted into a conductive primary backing

Designed to meet your needs today and tomorrow

- ☀ No slip hazard
- ☀ Durable construction
- ☀ Easy maintenance
- ☀ Forgiving on dirt and spills

Colors





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Specifications

PRODUCT DESCRIPTION: Modular Carpet Tile & Broadloom Rolls

CONSTRUCTION: Dense Tufted Textured Graphic Loop

YARN WEIGHT(s): Premier: 26 oz./sq. yd. (Standard); Fundamentals: 20 oz./sq. yd. (Optional); Elite: 30 oz./sq. yd. (Optional)

TOTAL WEIGHT: 150 oz./sq. yd. (Tile); 54 oz./sq. yd. (Broadloom)

STITCHES PER INCH: 10 Stitches / 10 Gauge

PILE HEIGHT: High: 3/16" Low: 1/8"

FIBER: Aquafil Alto Chroma 100% Continuous Filament Type 6 Nylon

CONDUCTIVE FIBER: 100% Continuous Conductive ZeroStat™ FiberFusion monofilament in every tuft & yarn end

SIZES AVAILABLE: 18" x 18" Tiles, 24"x 24" Tiles, 12' Broadloom Rolls

ELECTRICAL PROPERTIES:

EOS/ESD S7.1 Resistive Characterization of Floor Materials: (6) or more readings from Surface-to-Ground Point.

Tested with an applied voltage of 100v. Measurement value in Ohms =

(Minimum): 1.80×10^5 **(Maximum):** 2.90×10^6 **(Median):** 2.55×10^6 **(Mean):** 2.43×10^6

EOS/ESD S7.1 Resistive Characterization of Floor Materials: (6) or more readings between 5lb. Electrodes placed 12" apart. Tested with an applied voltage of 100v. Measurement value in Ohms =

(Minimum): 7.00×10^5 **(Maximum):** 1.50×10^6 **(Median):** 8.15×10^5 **(Mean):** 8.53×10^5

Electrical Resistance / Voltage Test ANSI/ESD S20.20, compliant when using approved personnel footwear per

6.2.2.2. Results within recommended range of <35 Meg Ohms or < 100 volts.

D.O.D. HDBK263A. Section 40.1.2: Meets recommended guidelines for Class 1 ESDS devices.

STATIC DECAY:

Conditioning: 50% RH +/- 2% @ 23°C +/- 1°C for 24 Hours.

Test conducted @: 50% RH +/- 2% @ 23°C +/- 1°C.

Test results = Time, seconds to decay to 10% of initial charge. Results, <0.01 seconds

GROUNDING PROPERTIES:

ZeroStat™ Grounding Mechanism: (12 mm) heavy copper strip w/ .080 Stainless Steel ZeroStat™ Plate Assembly

Grounding Frequency: Basic: (1) per 2,000 sq. ft.; Advanced: (1) per 1,000 sq. ft.; Critical: (1) per 500 sq. ft.

BACKING SYSTEMS:

Primary: Uni-Stat conductive reinforced (Tile & Broadloom)

Secondary: Fiberglass reinforced Comfort Cushion™ dissipative PVC backing w/ conductive additives (Tile)

Secondary: Static-Back woven Synthetic (Broadloom)

ADHESIVE SYSTEMS:

UltraStat™ releasable adhesive system (URAS); Dry Textile adhesive for tile + rolls (1.0×10^4)

UltraStat™ releasable adhesive system (GZ-C2000-R) Pressure sensitive adhesive for tile + rolls (1.0×10^6)

ZeroStat™ permanent adhesive system (GZ-C2000) 1-part modified water base adhesive for tile + rolls (1.0×10^5)

AVAILABILITY:

Stock Colors - No Minimum Note: ZeroStat™ Custom 21 - 500 Yard Minimum

FLAMMABILITY:

ASTM E-648 Flooring Radiant Panel - Class 1 (ASTM E-662 NBS Smoke Density - < 450)

WARRANTY:

15 Year Heavy Commercial on: Fiber Wear; Stain Removal; Colorfastness

Lifetime on Electrical Properties & ESD Performance



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