

OctoStat Mission Critical ESD Floor Mats

ESD Chair Mats for Covering Hard Surface Flooring and THIN pile (direct glue down) Carpeting

The portable ESD Floor for your workstation!

- For use over hard surface flooring and THIN pile (direct glue down) Carpet
- Incredibly tough and resilient but thin for reduced tripping hazards!
- Permanent or temporary ESD safe workstation mat!
- Fully compliant to the NEW ANSI ESD standards!
- Passes ISO and all ESD Audits with ease!
- TR53 friendly! ULTIMATE Mission Critical Static Control!



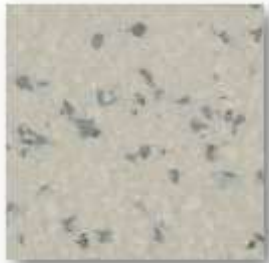
PRODUCT QUALIFICATION: Meets Table 2, page 6 Personal Grounding requirements, Footwear / Flooring System ANSI/ESD STM97.1 and ANSI/ESD STM97.1 with a system resistance of $<1.0E09$ and a Peak Voltage if <100 Volts (3 to 12 volts typical).

COMPLIANCE VERIFICATION: Meets ESD TR53 Footwear Section and TR-53 Flooring Section with a system resistance and point to ground of $<1.0E09$

Meets Table 3 (page 8) EPA ESD Control Items, Flooring: Product Qualification per ANSI/ESD STM7.1 with a point to point and point to groundable point of $<1.0E09$

OctoStat Static Control Chair mats are custom manufactured at our Colorado facility using our Titanium series static control sheet vinyl. This material features an unbelievably hard, wear resistant top surface laminated to a full surface highly conductive backing and provides ULTIMATE and permanent static conductivity in all environments and at all humidity levels. An industry approved ground cord is supplied with each mat. Full Certification to ANSI ESD S20.20-2021 standards using NIST in compliance test instruments is available for a minor upcharge of \$35.00 per mat.

Available Colors:

 Dark Gray - Part Number Ti482	 Clean White - Part Number Ti480
 Electronic Blue - Part Number Ti483	 Pale Gray - Part Number Ti481

Specifications:

Average Surface Resistivity Point to Point (PTP per ESD S 7.1)	>2.5E04 <1.0E06
Average Electrical Resistance to Ground (RTG per ESD S 7.1)	>2.5E04 <1.0E06 without the bevel hooded ground cord. This ground cord contains a 1 meg resistor raising the RTG to ground cord termination to about 2.5E06.
Electrical Resistance of technician in heel grounders in conjunction with material to ground (per ESD 97.1)	< 3.5E07
Tribo charging characteristics (per ESD 97.2)	< 10 Volts
Flooring Radiant Panel: NFPA 253: Critical Radiant Flux	0.73 W/cm ² , Class 1
Flooring Radiant Panel: NBSIR 75-950: Critical Radiant Flux	Pass, Class 1
Flooring Radiant Panel: ASTM-648: Critical Radiant Flux	0.73 W/cm ² , Class 1
Smoke Density, ASTM E-662; NFPA 258; Average optical density in burning / smoldering mode	<450
Residual Indentation LF-475A	0.002 average



Abrasive Wear, Taber H-18 wheel, 5,000 cycles, 1,000 gm weight	1.1% loss of weight
Abrasive Wear, Taber H-18 wheel, 1,000 gm weight to wear layer penetration (end point)	>20,000 cycles, <2.0% loss of weight
Static coefficient of friction, ASTM D-2047-03, James Test average wet, dry leather	.60 approx.
Static load limit DIN 16961.2	>1,000 PSI
Charge decay time per FTMS 4046-101c	< .17 seconds
Thickness	2 mm
Spark Test: 300 mm metal file, 1.8 meter arc, darkened room	PASS

Ground Cord Specifications: Each ground cord contains a 1 Megohm Safety Resistor. See specification sheet for details.

Testing and Certification: All OctoStat Mats and their associated ground cords are individually tested using NIST in compliance test instruments by technicians adept at testing to methods clearly defined and published by the ESD association. Please visit ESDA.org for details on their mission. OctoStat is warranted for absolute compliance to ANSI ESD S20.20-2021 standards. An optional Certificate of Compliance Verification (COC) is available for a minor upcharge of \$35.00 per mat.

WARRANTY: These mats are warranted for Lifetime Static Control Performance and compliance to ANSI ESD S20.20-2021. The Ground Cords are warranted for One Year. Use ONLY ElectraClean and water or ElectraMat ESD Mat Cleaner to clean these mats. Other cleaning chemicals may leave an insulative residue and make the mats brittle. Note: These mats are built to order and custom cut to size. As such, they are not eligible for refunds or returns.



Initial release of this document: 8/18/2026

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