



# Technical Data Sheet

## SEALEZE® Static Control Brush with Aluminum Holder Product No. SFB110AS (AntiStatic)

### Construction:

Filament: 100% nylon filament, 0.010" diameter, with impregnated conductive carbon  
Channel and Core Wire: galvanized steel  
Holder: clear anodized aluminum

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### Static Decay:

Target: Rate of decay shall be less than 2.0 seconds  
Found: +1000v to +100v in >2.0 seconds  
-1000v to -100v in >2.0 seconds  
Method: Modification of EIA 541-1988, Appendix F

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### Surface Resistivity of Brush Fibers:

DoD Hnbk263: Limit:  $<1.0 \times 10^{14}$  ohms/square ( $1.0 \times 10^{13}$  ohms) [Antistatic Range]  
Found: Average:  $1.16 \times 10^{13}$  ohms/square ( $1.16 \times 10^{12}$  ohms) @ 100 volts  
Method: ASTM D257-99

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### Two-Point Resistance of Brush Fibers Through Inner Bar:

ESDS541: Static Dissipative Range  $<1.0 \times 10^{11}$  ohms  
Found: Average:  $3.38 \times 10^{11}$  ohms @ 100 volts  
Method ANSI/ESD STM11.13-2004

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### Two-Point Resistance of Mounting Bracket:

ESDS541: Static Dissipative  $>1.0 \times 10^4$  -  $<1.0 \times 10^{11}$  ohms  
Found: Average:  $3.72 \times 10^8$  ohms @ 100 volts  
Method: ANSI/ESD STM11.13-2004

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### Continuity from Mounting Bracket to Brush Fibers:

Target: Conductive Range  $<1.0 \times 10^4$  ohms (No Standard)  
Static Dissipative Range  $<1.0 \times 10^{11}$  ohms  
Found: Average:  $3.68 \times 10^{11}$  ohms @ 100 volts  
Method Modification of ANSI/ESD STM4.1-1997

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### **Tribo Charge Generation (Highest Peak Voltage):**

Requirement: No Established Standard

Found: +10,240 volts to +4,865 volts @ 20%RH

+10,240 volts to +3,680 volts @ 50%RH

Reference: Static Sensor Placement near Substrate after Contact<sup>1</sup>

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### **ESD Inside Shelf Life (Storage without use):**

Requirement: 5 Years

Found: Indefinite

Reference: Contains no antistats

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Note: <sup>1</sup>Results may vary from location to location. ESDS541 = ANSI/ESD S.541-2003 Form: ESD2-05/9/04

Since different levels of ESD protection are required for different devices, all users should perform their own tests to prove the suitability of the static control brush material for specific applications. User assumes all liability regarding damage or loss arising from use of products. User shall determine the applications of these materials for the intended application(s), and assumes total liability in the event of aforementioned damages.