

TRONEX

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Requirement: ANSI/ESD S541-2008 compliance verification testing of static dissipative, ESD protective, Tronex brand hand tool grips.

Test Method: ANSI/ESD STM11.13, Two-Point Probe, resistance measurement for static dissipative materials. The Standard's resistance test limit is $<1 \times 10^{11}$ Ohms.

Test Equipment: N.I.S.T. Calibrated, Desco 19291 Digital Surface Resistance Tester, Electro-Tech Systems 844 Resistance Probe

Test Conditions: 75°F, 50% Relative Humidity

Note, ANSI/ESD S20.20-2014 does not require Qualification or Compliance Verification of non-electrical hand tool grips. Therefore the resistance test method identified in the ANSI/ESD S541-2008 Packaging Materials Standard was employed. Two random cutter and two plier models with standard static dissipative grips were selected for testing. The measurements are expressed in Ohms of Resistance. The test results are as follows:

- Cutter #1
 - Grip 1 = 9.47×10^9 ohms – In Spec
 - Grip 2 = 3.61×10^9 ohms – In-Spec
- Cutter # 2
 - Grip 1 = 1.12×10^{10} ohms – In-Spec
 - Grip 2 = 6.53×10^9 ohms – In-Spec
- Plier # 1
 - Grip 1 = 6.35×10^9 ohms – In-Spec
 - Grip 2 = 1.16×10^9 ohms – In-Spec
- Plier # 2
 - Grip 1 = 7.49×10^9 ohms – In-Spec
 - Grip 2 = 9.60×10^9 ohms – In Spec

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