Products used in Electronic Industries & Instrument to Measure Static Charge and to eliminate them
Packing Material

- Antistatic Bags
- Conductive Bags
- Static Shielding Bags
- Moisture Barrier Bags
- Antistatic Bubble Bags
- Antistatic / Conductive Foam Bags
- Antistatic Zip lock Bags
Personnel Protection

- Antistatic Wrist Bands
- Antistatic Heel Straps
- Antistatic Disposable Shoe Covers
- Antistatic Shoes
- Antistatic Slippers
- Antistatic Finger Cots
- Antistatic Apron
- Antistatic Caps
- Antistatic Bunny Suit
ESD Safe Measuring Instruments

- Static Charge Meter (Digital)
- Surface Resistivity Meter (100V)
- Surface Resistivity Meter (100V) with Probes
- Wrist Strap & Footwear Tester
- Static Alarm
- Human Body Static Voltage Checking Meter
- Bench Top Ionizer
- Over Head Ionizer
- Continuous Workstation Monitor
Other Materials

- ESD Safe Work Table
- ESD Safe Chair
- ESD Safe Stool
- ESD Safe Flooring
- Conductive Flooring
- ESD Safe Bins
- ESD Safe PCB Racks
- ESD Posters
- Antistatic Flooring Solution
- Tacky Mat
- ESD Safe Magazine Rack
- ESD Safe PCB Storage Rack
- ESD Safe Magnifiers
- Component Organizer
- Field Service Kit
- Yellow / Red / Black / Green Tape (Plain)
- ESD Safe Yellow Caution Tape
- Copper Tape
- Aluminum Tape
- Static Shielding Tape
- Conductive Grid Tape
- Heat Sink Pad
- Antistatic Brush
- Conductive Tray
- Conductive Foam
- Conductive Sample Box
- Conductive Crates
- Plastic Tweezers
- Conductive Wheels
- Conformal Coating
Technical Specifications of Antistatic Bags

Many ICs are static sensitive and can be damaged when you touch them because your body may have become charged with static electricity, from your clothes for example. Static sensitive ICs will be supplied in antistatic packaging with a warning label and they should be left in this packaging until you are ready to use them.

- Thickness – 100 +/- 10 Microns
- Polymers – Polyethylene
- Static Charge – Nil
- Permanently inhibits generation of harmful static charges
- Heat sealable
- Resealable Bags
- Tubing is ideal for making you own packaging
- Surface Resistance – $10^{11}$ Ohms / Sq
- Colour – Pink
**Technical Specifications of Conductive Bags**

- **Material**: PE + Conductive Carbon Black
- ** Thickness of bag**: 90 +/- 10 Microns
- ** Colour**: Black

**ELECTRICAL PROPERTIES**

- **Surface Resistivity**: $10^4$ Ohms / Sq
- **Electrostatic properties**: The decay rate less than 2.0 seconds.
- **Static Charge Generation**: Nil

**Uses**: Used to pack static sensitive Items.
Specifications of Antistatic & Static Shielding Bags

Semitransparent

Composition 3 Layer Bag:

1. Top Layer : Antistatic Polyester Layer
2. Middle Layer : Conductive Aluminum Layer
3. Inside Layer : Antistatic Polyethylene Layer

Thickness: 75 microns (300 Gauge) (3 Mil)

Electrical Properties:

Surface Resistivity

Inside Layer : $10^9$ to $10^{11}$ Ω / Sq
Middle Layer : $10^4$ Ω / Sq
Top Layer : $10^9$ to $10^{11}$ Ω / Sq
Technical Specifications of Metalized Moisture Barrier Bag

1) Structure of static dissipative polyethylene and metalized polyester
2) Provide excellent moisture barrier
3) Maximum puncture resistance
4) Thickness – 3 Mils (100 Microns)
5) Static shielding efficiency
6) Static Decay Rate < 0.03 Seconds
7) MVTR (g / 100 sq.in / 24 hrs.) < 0.05
## Technical Specifications for Antistatic Bubble Roll

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>LDPE (Resin Source Reliance)</td>
</tr>
<tr>
<td>Colour</td>
<td>Natural</td>
</tr>
<tr>
<td>Gauge</td>
<td>300 - 320 (75 – 80 Microns)</td>
</tr>
<tr>
<td>Bubble Diameter</td>
<td>10 mm +/- 1 mm</td>
</tr>
<tr>
<td>Height of the Bubble</td>
<td>4 mm +/- 0.2 mm</td>
</tr>
<tr>
<td>Surface Resistivity</td>
<td>≥ 10^{12} Ohms</td>
</tr>
<tr>
<td>Heat Sealbility</td>
<td>Yes</td>
</tr>
<tr>
<td>Temp Resistance</td>
<td>60°C</td>
</tr>
<tr>
<td>Acid / Alkali / Water Resistance</td>
<td>Yes</td>
</tr>
<tr>
<td>Size of the roll</td>
<td>1.5 mtr x 100 mtrs</td>
</tr>
</tbody>
</table>
Technical Specifications for Bubble Roll

- **Material**: LDPE
- **Colour**: White
- **Gauge**: 250 - 300
- **Bubble Diameter**: 10 mm
- **Height of the Bubble**: 4 mm
- **Surface Resistivity**: $\leq 10^{12}$ Ohms
- **Heat Sealability**: Yes
- **Temp Resistance**: 60°C
- **Acid / Alkali / Water Resistance**: Yes
Technical Specifications of Antistatic Foam Sheet / Bags

- **Material**: PE
- **Colour**: Pink
- **Size**: Width 1.5 mtr x Length 100 Mtrs
- **Surface Resistivity**: $10^{11}$ Ohms / Sq
Technical Specifications of Wrist Bands

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance</td>
<td>1 Meg ohm</td>
</tr>
<tr>
<td>Resistor</td>
<td>¼ watt, 1 Meg ohm carbon film</td>
</tr>
<tr>
<td>Insulation</td>
<td>PVC</td>
</tr>
</tbody>
</table>

WRIST BAND

22 CMS Conductive Fiber Woven elastic band with Velcro fasteners. Contact plate through 316 grade stainless steel, adjustable.

GROUNDING CORD:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Dia</td>
<td>3 mm +/-0.1mm</td>
</tr>
<tr>
<td>Coil Dia</td>
<td>8 mm +/-10%</td>
</tr>
<tr>
<td>Insulation</td>
<td>PVC</td>
</tr>
<tr>
<td>Banana Plug Dia</td>
<td>4 mm</td>
</tr>
<tr>
<td>Moulded contact Button</td>
<td></td>
</tr>
<tr>
<td>Banana Plug + Crocodile Clip</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>2 Mtr in expanded state</td>
</tr>
</tbody>
</table>
Technical Specifications of Heel Strap

Designed for use in electronic shop floor with conductive heel and elastic fastener for use on any footwear worn by the operator. Provides grounding path for dissipation of Static Charges

**SPECIFICATION:**

Surface Resistivity

- Conductive Rubber: $10^4 – 10^6$ ohm/sq
- Conductive Strip: $10^4 – 10^6$ ohm/sq

- Surface to ground Resistance: $<50$ Meg ohm
- Discrete Resistance: Built-in 1 meg ohm, ¼ watt.
Technical Specifications of Anti Static Disposable Shoe Cover

- Material: Polyethylene.
- Colour: Opaque Blue / Yellow
- Size: General
- Thickness: 25 +/- 5 microns
- Surface Resistance: $\leq 10^{11}$ Ohms/ Sq inch
- Static Charge Generation: Nil
- Rate of Decay: $\leq 2$ sec.

Electrical Properties as given below:

- Surface Resistivity was tested using SRM-100 Volts with special probes
- Static Charge was tested using SCM – Meter
Technical Specifications of Antistatic PVC Shoe

- Colour: White
- Sole: Gray colour, PVC Antistatic
- Top: Foamed leather, PVC.
- Sole Resistance: ≤ 10^9 ohms
- Sizes: 7, 8, 9 & 10
- Static Charge generation: ≤ 200 Volts.
## Technical Specifications of Antistatic Slippers

Antistatic footwear are essential to drain out the human body static electricity safely to the ground. Antistatic Slippers prevent the accumulation of Static electricity and remove any existing static electricity from the body.

These footwear are made Rubber, with light weight, Permanent Antistatic, Black Color, Non PVC Material meeting the ANSI/ESD S20.20-2007 standards.

Various sizes are available, and are very easy to wear.

### SPECIFICATIONS:

According to the standard **ANSI/ESD S20.20-2007** should have the following.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Black</td>
</tr>
<tr>
<td>Sizes</td>
<td>6 No to 10 No are available</td>
</tr>
<tr>
<td>Surface Resistivity</td>
<td>$\leq 10^9$ Ohms</td>
</tr>
<tr>
<td>Volume Resistivity</td>
<td>0.75 to 100 Mega Ohms</td>
</tr>
<tr>
<td>Static Generation</td>
<td>Nil</td>
</tr>
</tbody>
</table>
Technical Specifications of Antistatic Low Powder Finger Cots

- Antistatic property is consistently maintained
- Washed under a controlled process to remove particles and reactive ions such as Na+, K+, Ca2, Mg2, Nz2+, Cl, SO4
- Surface resistivity: 10^9 – 10^11 Ohms / Sq., Suitable for handling of Class II, Category B (100V) ESD.
- Suggested for Class II (2000 – 3999 Volts) static sensitive devices
- Ultra – Low powder cot surfaces minimizes particulate contamination
- Ultra – Low levels of extractable and residual ions prevent product failure
- Packing done in clean environment
### Technical Specifications of Antistatic Aprons

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition</strong></td>
<td>Polyester filament yarn with conductive Filament yarn</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>100 % Polyester</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Blue / White</td>
</tr>
<tr>
<td>Surface resistivity on the cloth</td>
<td>Less than $10^9$ Ohms</td>
</tr>
<tr>
<td>Static charge generation</td>
<td>Less than 200 Volts</td>
</tr>
<tr>
<td>Rate of decay</td>
<td>$&lt; 2$ sec</td>
</tr>
<tr>
<td>Electro Conductive Yarn</td>
<td>Carbon</td>
</tr>
<tr>
<td>Air Permeability (CC/Cm²/Sec)</td>
<td>9.3</td>
</tr>
<tr>
<td>Moisture Permeability (gr/m²/24 hrs)</td>
<td>7.156</td>
</tr>
</tbody>
</table>
## Technical Specification of Antistatic Apron

<table>
<thead>
<tr>
<th>Composition</th>
<th>POLYESTER FIBER with CONDUCTIVE FIBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrap (Polyester filament yarn)</td>
<td>75d / 36f</td>
</tr>
<tr>
<td>Wrap (Polyester filament yarn)</td>
<td>100d / 48f</td>
</tr>
<tr>
<td>Wrap (Conductive yarn)</td>
<td>97d / 25f</td>
</tr>
<tr>
<td>Wrap (Conductive yarn)</td>
<td>97d / 25f</td>
</tr>
<tr>
<td>Weaving Structure (twill)</td>
<td>2up / 1 down</td>
</tr>
<tr>
<td>Density (wrap x weft / inch)</td>
<td>192 x 92</td>
</tr>
<tr>
<td>Weight (gr / yd)</td>
<td>155</td>
</tr>
<tr>
<td>Conductive yarn’s interval</td>
<td>5 x 5 mm</td>
</tr>
<tr>
<td>Material</td>
<td>100% Poly</td>
</tr>
<tr>
<td>Electro Conductive Yarn</td>
<td>Carbon</td>
</tr>
<tr>
<td>Air Permeability (cc / cm² / sec)</td>
<td>9.3</td>
</tr>
<tr>
<td>Moisture Permeability (gr / m² / 24hrs)</td>
<td>7,156</td>
</tr>
<tr>
<td>Tearing Strength (gr)</td>
<td>Warp: 2,992; Weft: 2,448</td>
</tr>
<tr>
<td>Acid Resistance (50 wash)</td>
<td>Good</td>
</tr>
<tr>
<td>Fractional Static Charge (V)</td>
<td>Wrap: 90; Weft: 110</td>
</tr>
<tr>
<td>Surface Resistivity (Ohm /Sq)</td>
<td>10⁵ – 10⁹</td>
</tr>
<tr>
<td>Particle Efficiency (%)</td>
<td>0.3: 81; 0.5: 85</td>
</tr>
<tr>
<td>Colour</td>
<td>White / Blue</td>
</tr>
</tbody>
</table>
Technical Specifications of Static Charge Meter (Digital), Model No. DSM-01

Digital static meters are ideal instruments for measuring the magnitude and polarity of electrostatic potentials commonly encountered in development laboratories, electronic manufacturing areas, printing press, packing and production lines, etc.

The model DSM-01 is a light weight non-contacting static meter to measure static voltages with a polarity on objects & surfaces. The unit gives direct readings of electrostatic potentials on any surface, when held at a distance of 1 inch. However, virtually higher electrostatic potential can be measured by proportionately increasing the distance from the meter to the charged object. The instrument features large display with a very low drift circuit to give measurements. Moreover the model has a special feature of visual and audible “HAZARD” indication when it measures more than +/- 1 kV.

SPECIFICATIONS:

- **Measurement Range**: +/- 10kV @ 1 Inch, +/- 20kV @ 2 Inch, +/- 30kV @ 3 Inch.
- **Accuracy**: +/-10%
- **Indication**: 3 ½ Digit LCD Display
- **Resolution**: 10 Volts
- **Over Range**: On LCD symbol “▲” Indicates over range
- **Test Actuation**: Press to Read
- **Power supply**: 9 Volt Battery
- **Low Battery**: On LCD “BAT” indicates low battery
- **Calibration**: Recommended every 12 months
- **Traceability**: To National Standards
- **Dimensions**: 135 x 70 x 25 mm
- **Weight**: 160 gms (with battery)
- **Warranty**: 12 Months
- **Accessories**: Carry case.

Note: The specifications mentioned in this datasheet are subject to change without prior notice due to our continuous research of product development, Buyer or User should decide the suitability of the product for the intended application.
The model SRM-100V is a precision, low cost, hand held, battery operated instrument designed to measure surface Resistivity, surface to ground and resistance between two points is accordance with EOS/ESD Association standard S-11.11.

The SRM-100V meter (Including external electrodes) is designed to make surface to ground and resistance between two point’s measurements.

**SPECIFICATIONS:**

- **Measurement Range**: $<10^{3}$ to $>10^{12}$ Ohms (or) Ohms/sq
- **Measurement Accuracy**: Half decade
- **Resolution**: One decade
- **Open Circuit voltage**: 100V (+/- 5V)
- **Indication**: Different Color LED’s
- **Test actuation**: Press & Hold to Test
- **Power Supply**: 9 Volt Battery
- **Low Battery Indication**: Flashes by LOW – BATT Led
- **Dimensions**: 135 x 70 x 25 mm
- **Weight**: 160 gms (with Battery)
- **Calibration**: Recommended every 12 months
- **Traceability**: To National Standards
- **Warranty**: 12 Months
- **Accessories**: External cords & Carry Case
- **Optional**: External Electrodes.
Technical Specifications of Surface Resistivity Meter (100V), Model No.SRM-100V

The model SRM-100V is a precession, low cost, hand held, battery operated instrument designed to measure surface Resistivity, surface to ground and resistance between two points is accordance with EOS/ESD Association standard S-11.11.

The SRM-100V meter (Including external electrodes) is designed to make surface to ground and resistance between two point’s measurements.

<table>
<thead>
<tr>
<th>SPECIFICATIONS:</th>
<th>( &lt;10^3 ) to ( &gt;10^{12} ) Ohms (or) Ohms/sq</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range</td>
<td>( \times 10^{3} ) to ( &gt;10^{12} ) Ohms (or) Ohms/sq</td>
</tr>
<tr>
<td>Measurement Accuracy</td>
<td>Half decade</td>
</tr>
<tr>
<td>Resolution</td>
<td>One decade</td>
</tr>
<tr>
<td>Open Circuit voltage</td>
<td>( 100 ) V (( \pm ) 5V)</td>
</tr>
<tr>
<td>Indication</td>
<td>Different Color LED’s</td>
</tr>
<tr>
<td>Test actuation</td>
<td>Press &amp; Hold to Test</td>
</tr>
<tr>
<td>Power Supply</td>
<td>9 Volt Battery</td>
</tr>
<tr>
<td>Low Battery Indication</td>
<td>Flashes by LOW – BATT Led</td>
</tr>
<tr>
<td>Dimensions</td>
<td>135 x 70 x 25 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>160 gms (with Battery)</td>
</tr>
<tr>
<td>Calibration</td>
<td>Recommended every 12 months</td>
</tr>
<tr>
<td>Traceability</td>
<td>To National Standards</td>
</tr>
<tr>
<td>Warranty</td>
<td>12 Months</td>
</tr>
<tr>
<td>Accessories</td>
<td>External cords &amp; Carry Case</td>
</tr>
<tr>
<td>Optional</td>
<td>External Electrodes.</td>
</tr>
</tbody>
</table>
### Optional:

**EXTERNAL ELECTRODES**

External Testing Electrodes are used for measuring POINT – to – POINT resistance and SURFACE – to – GROUND resistance of floors, work surfaces, floor mats paint & floor fishes. It accepts 4 mm banana plug or 6 mm ring terminal for taking the connection. It is designed accordance with EOS/ESD Standards.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2.27 Kg (5 Pound) per probe</td>
</tr>
<tr>
<td>Contact Surface</td>
<td>Conductive Rubber</td>
</tr>
<tr>
<td>Contact Area</td>
<td>63.5 mm (2.5 Inches)</td>
</tr>
<tr>
<td>Resistance</td>
<td>&lt; 500 Ohms</td>
</tr>
<tr>
<td>Hardness</td>
<td>&lt; 70 (in durometer)</td>
</tr>
<tr>
<td>Outer Sleeve</td>
<td>Silicone Rubber</td>
</tr>
<tr>
<td>Handle</td>
<td>Insulative Handle (Easy to carry)</td>
</tr>
</tbody>
</table>

Note: The specifications mentioned in this datasheet are subject to change without prior notice due to our continuous research of product development, Buyer or User should decide the suitability of the product for the intended application.
Technical Specifications of Wrist Strap & Footwear Tester, (Model No. WSFT - 01)

The potential for damage caused by a static charge build-up on personnel involved in the handling of semiconductor devices. ESD wrist strap, heel strap, toestrap and foot wears are most commonly used protective devices which prevent the build-up of electrostatic charge on personnel. The random failure of wrist strap or foot wears compromises the protection. Thus, it is important to test every wrist strap / footwear regularly.

The Model: WSFT-01, wrist strap & footwear tester is a precession instrument that check the specified limit of all types of wrist straps, foot wears and other similar personnel grounding devices under actual operating conditions with the strap on the wrist or foot wear on the foot. It clearly indicates whether LOW-FAIL or PASS or HIGH-FAIL the maximum wrist strap resistance should not be more than 10 Meg ohms and foot wears resistance should not be more than 100 Meg ohms. On the other end, the resistance should not be less than 0.75 Meg ohms as protection to the wearer from dangerous level of the voltage and current flow.

The instrument circuits is specially designed for the drift less readings (i.e., it displays only one result accurately) and it is very quick and convenient method to check personnel groundings.

OPTIONAL: Customized resistance limits can be provided to meet special user requirements.
Kinetic Polymers
D-13/2, Phase – 1, Road No : 3,IDA,Jeedimetla,Hyderabad – 500 055.
Phone No : 040 – 65278344 , 65408277 , Tele Fax No : 040 – 23093957
E-Mail : kineticpolymers@gmail.com , Web site : www.kineticpolymers.com

SPECIFICATIONS:

Range : Wrist strap 0.75 to 10 Meg ohms
        Foot Wear 0.75 to 100 Meg ohms
Range Selection : By Toggle Switch
Indications : LOW-FAIL (Indicates Less than 0.75 Meg Ohms)
              PASS (Indicates 0.75 to 10/100 Meg ohms)
              HIGH-FAIL (indicates More than 10/100 Meg Ohms)
              (Audible alarm for FAIL modes)
Test actuation : By Press & Hold the Metal sensor plate.
Accuracy : +/- 10%
Power supply : 9 Volt Battery
Battery Status : By dual color LED (Red-Low Bat & Green-Ok).
Dimensions : 135 x 70 x 25 mm
Weight : 150 gms (with battery)
Calibration : Recommended every 12 months
Traceability : To National Standards
Warranty : 12 Months
Accessories : Carry Case.
Optional : Foot Plate, User Instruction Board.

The Optional USER INSTRUCTION BOARD can be wall mounted outside the ESD protected area and Foot wears can be tested by connecting the stainless steel FOOT PLATE.

ATTENTION!
WRIST STRAP & FOOT WEAR TESTER
TEST YOUR PERSONNEL GROUNDINGS HERE.

* WRIST STRAP TEST:* Select the switch to wrist strap range. Insert wrist strap into tester. Align sensor plate with wrist strap. GREEN LED indicates safe resistance PASS. RED LED indicates fail.

* FOOT WEAR TEST:* Select the switch to foot wear range. Insert foot plate into tester. Align stainless steel foot plate with tester. Press and Hold the metal sensor plate. GREEN LED indicates safe resistance PASS. RED LED indicates fail.
Technical Specifications of Electrostatic Alarm (Model: ESA-01)

The electrostatic alarm Model ESA-01 is a portable battery operated instrument, incorporating simple technology to indicate excessive charge accumulation in environments where ESD are detrimental to manufacturing process in the semiconductor and various ESD protected industries. The instrument can be kept in ‘ON’ for continuous monitoring of critical static safe area. Resetting the alarm is performed automatically.

OPERATION:

A static charge have the capability to produce electric field on any object, and the strength of the field at inversely at a distances from the charge, the electrostatic alarm responds this electric field, also more specifically it senses only charges in the electric field. So to detect a charge there should be a relative motion between the instrument and the charged body.

SPECIFICATIONS:

- Power Supply : 9V Battery
- Detection Voltage : +/- >100V
- Detection Method : Charge coupling by field interception
- Range Selection : Auto ranging & Auto Resetting
- Indication : LED’s visual indication with audible sound
- Dimensions : 105 x 70 x 25 mm
- Weight : 120 gms (with battery)
- Warranty : 12 Months.
- Accessories : Carry Case.
Technical Specifications of Human Body Static Voltage Checking Meter,
Model No.PST - 01)

One of the most common causes of electrostatic damage is the direct transfer of electrostatic charge from the human body. When one walks across a floor, an electrostatic charge accumulates on the body. Simple contact of a finger allows the body to discharge, possibly causing device to damage.

The Model PST-01 is designed to measure the static Voltages carried on a personnel. It is a precession instrument to verify whether Personnel entering an ESD safe area are carrying any hazardous charges on themselves.

It is very simple to use and only requires the personnel under test to touch the plate on the instrument and directly read the charge level in volts on the meter. Apart from the measuring the voltages, it can also be used to safely drain away the charges from the personnel. The instrument has a special feature of visual and audible “HAZARD” indication when it measures more than +/-100V. It is very quick and convenient method to check personnel voltages.

Moreover the tester will audit any potential static generator or dissipater, like.
Wrist straps, heel grounders, toe straps, static safe shoes, floor mats, etc....
**PST-01 SPECIFICATIONS:**

Range : +/-1999V
Hazard Indication : Visual and audible alarm if voltage exceeds +/-100V
Indications : 3 ½ Digit LCD display with polarity indication
Resolution : 1 Volt
Accuracy : +/- 10%
Test actuation : Touch To Test
Power supply : 9V DC Adopter or 9V Battery
Low battery : Indicates at < 7 V on Display
Dimensions : 180 X 100 X 45 MM
Calibration : Recommended every 12 months
Traceability : To National Standards
Warranty : 12 Months
Accessories : 9V DC Adopter, Instruction board,
             Grounding cord & Carry case.

Note: The specifications mentioned in this datasheet are subject to change without prior notice due to our continuous research of product development, Buyer or User should decide the suitability of the product for the intended application.
Technical Specifications of Bench Top Ionizer, (Model No. BTI - 01)

Bench top ionizer are useful in neutralizing generated electrostatic charges, which may cause Electrostatic Discharge, Electrostatic Attraction, as well as preventing equipment latch-up and safety related shock. The model BTI-01 is a portable unit designed to neutralize static charges from insulator surfaces in assembly areas, wave soldering lines, laboratories, storage racks, test stations and packing areas.

The Ionizer works on the principle of high voltage corona discharge to produce the neutralizing ions, and it produces ions airflow that is rich in positive and negative ions directing the airflow on an object that has static electricity in order to neutralize the charges. It will be neutralized by attracting opposite polarity charges from the ionized air. It does what grounding cords, table mats & antistatic laminates cannot do (i.e., remove the static charges from insulator objects and surfaces). Moreover the bench top ionizer is designed with compact high voltage pulse circuitry for continuous trouble free operation.

SPECIFICATIONS:

- Power supply : 230V AC 50Hz
- Power consumption : 25 watts
- Speed : 2550 RPM
- Air flow : 2.24 m³/min
- Noise : 45 dBA
- Static pressure : 6.4 mm H2O
- Ionization voltage : 6 - 8 KV
- Ion balance : under +/- 100 V
- Construction : Powder coated MS cabinet
- Dimensions in mm : 225 x 190 x 110 (with stand & knob bolt)
- Weight : 2.7 kgs
- Warranty : One year
Technical Specifications of Over Head Ionizer, (Model No. OHI - 01)

Overhead Ionizer are useful in neutralizing generated electrostatic charges, which may cause Electrostatic Discharge, Electrostatic Attraction, as well as preventing equipment latch-up and safety related shock. The model OHI-4F is overhead unit designed to neutralize static charges from insulator surfaces in assembly areas, wave soldering lines, laboratories, storage racks, test stations and packing areas. The unit can be conveniently hung over the work place and the four fans covers larger area to neutralize the charges.

The overhead Ionizer works on the principle of high voltage corona discharge to produce the neutralizing ions, and it produces ions airflow that is rich in positive and negative ions directing the airflow on an object that has static electricity in order to neutralize the charges. It will be neutralized by attracting opposite polarity charges from the ionized air. More over the overhead Ionizer is designed with compact high voltage pulse circuitry for continuous trouble free operation.

SPECIFICATIONS:

- Power supply : 230V AC 50Hz
- Power consumption : 100 watts
- Speed : 2550 RPM
- Air flow : 2.24 m³/min
- Noise : 55 dBA
- Static pressure : 6.4 mm H2O
- Ionization voltage : 6 - 8 KV
- Ion balance : under +/- 100 V
- Construction : Powder coated MS cabinet
- Dimensions in mm : 1095 x 165 x 85 mm
- Weight : 7.5 Kg (appx.)
- Warranty : One year
Technical Specifications of Workstation Monitor (Model No. WSM - 01)

In the electronics semiconductor industry ESD protected tables are used, which mainly consist of ESD mats or ESD laminates, and operators wear personnel groundings devices of ESD wrist straps. Both the items are most important for protection, and it is not possible to test the operators frequently in a day. As it will compromise the protection at any time the ESD damage can occur.

The model WSM-01 is a precession instrument to continuously monitor and give the indications by a visual & audible alarm to the operator of the ESD work surface grounding connections and operator’s wrist straps connections simultaneously. It does what which wrist strap & foot wear tester, surface resistivity meter, Common Point Ground & earth bonding plug cannot do (i.e., continuous monitoring).

WRIST STRAP: This section continuously monitors the wrist strap to detect loss of continuity between operator and monitor. Conditions such as broken coils cords and improper contact with the skin are detected instantly to alert the operator. As there is no resistance return path from the wrist strap, it uses the “capacitive AC pulse principle” to check if the operator is adequately grounded.

WORK SURFACE / GND: This section continuously monitors the work surface button to button resistance value, instrument to ground and work surface to ground connections simultaneously. This is monitored by a DC Resistive principle and a MAT/GND FAIL warning is given to the operator.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrist strap indications</td>
<td>Pass – Green LED / Fail – Flashing Red LED</td>
</tr>
<tr>
<td>Mat/Gnd indications</td>
<td>Fail - Steady Red LED (Audible alarm For Fail modes)</td>
</tr>
<tr>
<td>Range</td>
<td>10 Meg ohms</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/-10%</td>
</tr>
<tr>
<td>Input power</td>
<td>DC 12V @ 300mA</td>
</tr>
<tr>
<td>Construction</td>
<td>MS powder coated box with mounting brackets</td>
</tr>
<tr>
<td>Calibration</td>
<td>Recommended every 12 months</td>
</tr>
<tr>
<td>Traceability</td>
<td>To National Standards</td>
</tr>
<tr>
<td>Dimensions</td>
<td>100 (L) x 60 (W) x 30 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>200 gms</td>
</tr>
<tr>
<td>Warranty</td>
<td>One year</td>
</tr>
<tr>
<td>Optional</td>
<td>12V Adopter</td>
</tr>
</tbody>
</table>
Technical Specifications of Workstation Monitor (Model No. WSM - 02)

In the electronics semiconductor industry ESD protected tables are used, which mainly consist of ESD mats or ESD laminates, and operators wear personnel groundings devices of ESD wrist straps. Both the items are most important for protection, and it is not possible to test the operators frequently in a day. As it will compromise the protection at any time the ESD damage can occur.

The model WSM-02 is a precession instrument to continuously monitor and give the indications by a visual & audible alarm to the operators of the ESD work surface grounding connections and two operator wrist straps connections simultaneously and individually. It does what which wrist strap & foot wear tester, surface resistivity meter, common point ground & earth bonding plug cannot do (i.e., continuous monitoring).

WRIST STRAP: These sections continuously monitor the wrist straps to detect loss of continuity between operators and monitor simultaneously and individually. Conditions such as broken coils cords and improper contact with the skin are detected instantly to alert the operators. As there is no resistance return path from the wrist straps, it uses the “capacitive AC pulse principle” to check if the operators are adequately grounded.

WORK SURFACE / GND: This section continuously monitors the work surface button to button resistance value, instrument to ground and work surface to ground connections simultaneously. This is monitored by a DC Resistive principle and a MAT/GND FAIL warning is given to the operators.

SPECIFICATIONS:

- Wrist strap indications: Pass – Green LED / Fail – Flashing Red LED
- Mat/Gnd indications: Fail - Steady Red LED (Audible alarm For Fail modes)
- Range: 10 Meg ohms
- Accuracy: +/-10%
- Input power: DC 12V @ 300mA
- Calibration: Recommended every 12 months
- Traceability: To National Standards
- Dimensions: 140 x 110 x 35 (H) mm
- Weight: 200 gms
- Warranty: One year
- Optional: 12V Adopter
**Antistatic Work Bench (Annexure – 1)**

**Specifications :**

- Table Size : L 5’ x W 2.5’
- Height of the table : 5’
- Power points : 6 will be provided
- Channel 40 mm MS Square pipe powder coated with black colour
- Provision for keeping CPU
- Detachable Drawer – 1 No
- Foot Rest : 1 No
- Surface Resistance : $10^6$ to $10^9$ Ohms
ESD Safe Workstation with MS Section / Aluminium Channel with One storage shelves – 1
ITEMS – Accessories of ESD Safe Work Station - 1

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD Laminated instrument storage shelf 5’ x 1’</td>
<td>1 No</td>
</tr>
<tr>
<td>Tube light fitting</td>
<td>1 No</td>
</tr>
<tr>
<td>Drawing board</td>
<td>1 No</td>
</tr>
<tr>
<td>Electrical panel</td>
<td>1 No</td>
</tr>
<tr>
<td>A). Multipurpose 3 pin sockets</td>
<td>6 Nos</td>
</tr>
<tr>
<td>B). Switch tube light</td>
<td>1 No</td>
</tr>
<tr>
<td>Static dissipative table top size : 5’ x 2 ½ ’</td>
<td>1 No</td>
</tr>
<tr>
<td>Foot rest</td>
<td>1 No</td>
</tr>
<tr>
<td>Detachable drawer</td>
<td>1 No</td>
</tr>
<tr>
<td>Dismantling type MS Section Black Powder coated/Aluminium Section (40 mm sq)</td>
<td>1 No</td>
</tr>
<tr>
<td>Antistatic Bins</td>
<td>9 Nos</td>
</tr>
<tr>
<td>Illuminated Magnifier</td>
<td>1 No</td>
</tr>
<tr>
<td>Height of the table (5’ approximately)</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical Properties :**

Surface Resistance : $10^7$ to $10^9$ Ohms (as per ANSI/ESD S20.20-2007 standards)

Table top to ground resistance : < $10^9$ Ohms (as per ANSI/ESD S20.20-2007 standards)
ESD Safe Workstation with MS Section / Aluminium Channel with
Two storage shelves - 2
ITEMS – Accessories of ESD Safe Work Station - 2

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD Laminated instrument storage shelf 5’ x 1’</td>
<td>2 Nos</td>
</tr>
<tr>
<td>Tube light fitting</td>
<td>1 No</td>
</tr>
<tr>
<td>Drawing board</td>
<td>1 No</td>
</tr>
<tr>
<td>Electrical panel</td>
<td>1 No</td>
</tr>
<tr>
<td>A).Multipurpose 3 pin sockets</td>
<td>6 Nos</td>
</tr>
<tr>
<td>B).Switch tube light</td>
<td>1 No</td>
</tr>
<tr>
<td>Static dissipative table top size : 5’ x 2 ½ ’</td>
<td>1 No</td>
</tr>
<tr>
<td>Foot rest</td>
<td>1 No</td>
</tr>
<tr>
<td>Detachable drawer</td>
<td>1 No</td>
</tr>
<tr>
<td>Dismantling type MS Section Black Powder coated / Aluminium Section (40 mm sq)</td>
<td>1 No</td>
</tr>
<tr>
<td>Antistatic Bins</td>
<td>9 Nos</td>
</tr>
<tr>
<td>Illuminated Magnifier</td>
<td>1 No</td>
</tr>
<tr>
<td>Height of the table (6’ approximately)</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical Properties :**

Surface Resistance : $10^7$ to $10^9$ Ohms (as per ANSI/ESD S20.20-2007 standards)

Table top to ground resistance : < $10^9$ Ohms (as per ANSI/ESD S20.20-2007 standards)
Antistatic Tables with MS Channels – 3
ITEMS – Accessories of ESD Safe Work Station - 3

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD Laminated instrument storage shelf 5’ x 1’</td>
<td>1 No</td>
</tr>
<tr>
<td>Tube light fitting</td>
<td>1 No</td>
</tr>
<tr>
<td>Drawing board</td>
<td>1 No</td>
</tr>
<tr>
<td>Electrical panel</td>
<td>1 No</td>
</tr>
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<td>A). Multipurpose 3 pin sockets</td>
<td>6 Nos</td>
</tr>
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<td>B). Switch tube light</td>
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</tr>
<tr>
<td>Static dissipative table top size : 5’ x 2 ½ ’</td>
<td>1 No</td>
</tr>
<tr>
<td>Foot rest</td>
<td>1 No</td>
</tr>
<tr>
<td>Detachable drawer</td>
<td>2 Nos</td>
</tr>
<tr>
<td>Dismantling type MS Section Black Powder coated (40 mm Sq)</td>
<td>1 No</td>
</tr>
<tr>
<td>AntistaticBins</td>
<td>9 Nos</td>
</tr>
<tr>
<td>Illuminated Magnifier</td>
<td>1 No</td>
</tr>
<tr>
<td>Height of the table (5’ approximately)</td>
<td></td>
</tr>
</tbody>
</table>

Electrical Properties:

Surface Resistance : $10^7$ to $10^9$ Ohms (as per ANSI/ESD S20.20-2007 standards)

Table top to ground resistance : < $10^9$ Ohms (as per ANSI/ESD S20.20-2007 standards)
Technical Specification of Antistatic Vinyl Chair

ESD safe chair is essentially designed for discharging the accumulated electrical charges for the operator during critical electronic assembly.

- Height Adjustable
- Without Arms
- Seat Size : 18” x 18”
- Back Rest Size : 17” x 19”
- Seat height from the floor min : 19”
- Seat height from the floor max : 24”
- Height of the Handle Adjustable maximum : 12”
- Height of the Handle Adjustable minimum : 9”
- Seat and backrest upholstered with ESD PVC leather which is low in maintenance and clean
- Colour of seat and backrest – black
- Seat type : Smooth revolving
- Cushion : 2” seat and backrest
- Structure of chair : Tubular M.S. with chrome plating
- Chair base : Chrome plated 5 stars M.S. Base with 1 ESD Castor & 4 Normal castors. Drag included in center of base.
- Height adjustable seat : Using Hydraulic Mechanism
- Tilting back seat : The back can be locked in vertical positioning and can be tilted by unlocking.

Electrical Properties :

1). Seat & Backrest Surface Point to Point surface resistance : < 10⁷ Ohms
2). Seat to Castor and Seat to Chair Base Grounding chain resistance : < 10⁷ Ohms

- Antistatic Chair : Surface Resistivity of seat & back to the Ground 10⁶ – 10⁸ Ohms
- Meets the ANSI ESD S20.20-2007 and EIA 625 Standards
Kinetic Polymers
D-13/2, Phase – 1, Road No : 3,IDA,Jeedimetla,Hyderabad – 500 055.
Phone No : 040 – 65278344, 65408277, Tele Fax No : 040 – 23093957
E-Mail : kineticpolymers@gmail.com , Web site : www.kineticpolymers.com

Technical Specification of Antistatic Vinyl Chair

ESD safe chair is essentially designed for discharging the accumulated electrical charges for the operator during critical electronic assembly.

- Height Adjustable
- With Arms
- Seat Size : 18” x 18”
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- Height adjustable seat : Using Hydraulic Mechanism
- Tilting back seat : The back can be locked in vertical positioning and can be tilted by unlocking.

Electrical Properties :

1). Seat & Backrest Surface Point to Point surface resistance : < 10^7 Ohms
2). Seat to Castor and Seat to Chair Base Grounding chain resistance : < 10^7 Ohms

- Antistatic Chair : Surface Resistivity of seat & back to the Ground 10^6 – 10^8 Ohms
- Meets the ANSI ESD S20.20-2007 and EIA 625 Standards
Technical Specifications of ESD Stool

**Electrical Properties:**

- Seat Surface Resistance: $10^6$ Ohms
- Seat Resistance to Ground: $<10^9$

**Features:**

- ESD Stool.
- 19 mm Dia. Chrome plated M.S Pipe structure used.
- Seat made of ESD PVC.
- Foot ring provided.
- 3 Legs with PVC bush / base & 1 Leg with metal bush.
Technical Specification of Antistatic PVC 3 Layer Mat

1. Material : Homogeneous Antistatic composition with black Conductive layer sandwiched between Two antistatic layers.

2. Thickness : 2 mm ± 0.1mm

3. Sound Reduction factor : 3 db for 2 mm thickness


5. Water absorption : At room temperature for 24 hours is Less than 0.1%

6. Colour : Blue / Grey

ELECTRICAL PROPERTIES:

1). Surface Resistivity : $10^7$–$10^9$ ohms/sq.

2). Decay Time : Less than 2 seconds

Uses: For clean room and other area to drain static voltage for human being and trolleys etc.,
### Technical Specification of Conductive Floor Mat

- **Material**: Synthetic Polymer Sheet
- **Size**: W 1.5 mtr x L 20 mtr
- **Thickness**: 2 mm
- **Surface**: Smooth
- **Colour**: Black
- **Hardness**: 80 +/- 10 Shore ‘A’
- **Surface Resistivity**: < 50 Kilo Ohms as per STEC 7
- **Volume Resistivity**: < 50 Kilo Ohms as per STEC 7
- **Surface to Ground Resistance**: < 50 Kilo Ohms as per STEC 7
- **UV Resistance**: Yes
- **Resistance to Alkalis**: Yes
- **Resistance to Acid**: Yes
- **Abrasion Resistance**: Very good
- **Static Charge Generation**: Nil
Technical Specification of Antistatic Conductive Component Bins

To store all types Electronic Sensitive components or Devices at work places & in stores to protect from Static Charges. The stackable design will occupy less space in stores.

Specification:

- Material: Conductive Polymer
- Length: 100 mm
- Width: 75 mm
- Depth: 50 mm
- Surface Resistivity: < $10^5$ Ohms/Sq.
- Volume Resistivity: < $10^5$ Ohms

Technical Specification of Antistatic Conductive Component Bins

To store all types Electronic Sensitive components or Devices at work places & in stores to protect from Static Charges. The stackable design will occupy less space in stores.

Specification:

- Material: Conductive Polymer
- Length: 170 mm
- Width: 95 mm
- Depth: 60 mm
- Surface Resistivity: < $10^5$ Ohms/Sq.
- Volume Resistivity: < $10^5$ Ohms

Technical Specification of Antistatic Conductive Component Bins

To store all types Electronic Sensitive components or Devices at work places & in stores to protect from Static Charges. The stackable design will occupy less space in stores.

Specification:

- Material: Conductive Polymer
- Length: 235 mm
- Width: 155 mm
- Depth: 120 mm
- Surface Resistivity: < $10^5$ Ohms/Sq.
- Volume Resistivity: < $10^5$ Ohms
Technical Specification of Antistatic PCB Plastic Rack

- Material: Conductive Plastic
- Total Size: 450 mm x 130 mm (Approximately)
- Colour: Black
- No of PCBs: 25 Nos
- Surface Resistance: $10^4$ to $10^6$ Ohms / Sq
ANTISTATIC FLOOR CLEANING SOLUTION CONCENTRATED

Antistatic Flooring and Table Top attracts dust and contamination. Can be the Cause for ESD failure. Antistatic solution, when applied would create a conductive path on that inaccessible surface discharging the static charges temporarily affecting for approximately 48 hours depending on the usage. This solution has got a detergent action also so that the surface gets clean apart from improving the antistatic properties.

DILUTE THIS SOLUTION WITH WATER IN RATIO OF 1: 20

(1 LITER SOLN: 20 LITER WATER.) AND THEN USE IT

Note: Validity period will be Six Months

Specifications:

- For clean room of class 10, class 100 & class 10000
- Low Potassium content (In ppb)
- Low Ionic, no foam formulation
- No static charge generation
- Particle free solutions, filter to 0.1 microns
- Soluble in DI Water & Distil water
Technical Specification of Sticky Door Mat

Technology improvements in the field of Electronics, Pharmaceutical, Precision and Food processing have made the cleanliness more demanding. Static clean room Zoning is effective only when entrance of particles and dust into the clean room is fully prevented. Though experience and various test it has been confirmed that only one strap or two of uncleaned shoe soles are enough to bring thousand of harmful particles and dust into the clean room Areas / Shoes, slippers etc., which pass over the DISPOSABLE STICKY MAT surface are cleaned of dust particles sticky mat.

APPLICATIONS:

- Electronics precision industry
- Pharmaceutical industry
- Computer room
- Semiconductor assembly room
- Hospital operation theatre
- Chemical and medical laboratories
- 1 Set = 30 Pieces
- Size : 2’ x 3’
Technical Specifications of Conductive magazine rack

- Surface Resistance: $10^4$ to $10^6$ Ohms
- Overall size: 355 x 320 x 563 mm
- Max. Storage: 50 PCBs
- Suitable PCB Size: 350 x (50 – 250) mm
- Side Guide slot: D 3.5 mm x W 5 mm x P 10 mm
- The Top & Bottom boards are made of plastic / metal
- Gear track type easy to operation
Technical Specifications of Antistatic L-Type PCB Rack

Fixed PCB Carriers

We offer fixed PCB carriers L type by ALKON. It is a two side support PCB carrier of conductive or non conductive material and used for stronger card holding. Conductive fixed PCB carriers L type are considered excellent carriers for work benches. These fixed PCB carriers L type are easy to handle and does not occupy much space. The electrically conductive model is earthed only by placing on an earthed table. Our L type PCB carriers have following

Features:

- Holds boards on two contiguous edges
- Nestable when not in use
- Conductive PCB carrier in Black colour
- Non conductive PCB carriers in Grey colour
- Size: 207 x 273 x 95 mm
- 25 grooves, 9mm Pitch, 3mm width
**Technical Specifications of Magnifier (Model No : 8069N)**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens material</td>
<td>Glass</td>
</tr>
<tr>
<td>Lens Size</td>
<td>7.5” x 6.2”</td>
</tr>
<tr>
<td>Diopter</td>
<td>5 diopter</td>
</tr>
<tr>
<td>Voltage</td>
<td>220V – 240V</td>
</tr>
<tr>
<td>Light source</td>
<td>2 x 9 W energy – saving compact florescent lamp</td>
</tr>
<tr>
<td>Standard mount</td>
<td>Table base</td>
</tr>
</tbody>
</table>

The two light sources can be switched independently.
Technical Specification of Conductive Component Organizer

- Material: Component Organizer
- Size: H 230 mm x W 160 mm x L 400 mm
- Colour: Black
- Draws: 25 Nos
- Draw Size: W 70 mm x L 150 mm (Approximately)
- Surface Resistance: \( \leq 10^5 \) Ohms
- Static Charge Generation: Nil
Technical Specifications of Field Service Kit

1. Includes mat, Wristband Set, Straight ground cord 1Mg. Crocodile clip.

2. Static Shielding Bags & Anti Static brush

3. Two Pockets, Provide ESD protection of PCBs.

4. Two Studs With Reinforced backing

5. Resistance : $10^3$ to $10^5$ Ohms / Sq

6. Resistance to Ground : $10^3$ to $10^7$

7. Colour : Black
Technical Specifications of Floor Marking Tape / Zebra Tape

- **Material**: PE
- **Colour**: Yellow / Green / Red / Zebra
- **Size**: 12 mm / 24 mm Width
- **Thickness**: 50 Microns
- **Length**: 33 Mtrs
- **Surface Resistance**: $10^{11}$ Ohms / Sq
Technical Specifications of Yellow Caution Floor Marking Tape

Static awareness labels alert personnel handling bags, boxes or other packaging that the contents enclosed are static sensitive. Our labels are easy to use to ensure proper ESD warnings. 500 labels per roll.

Ideal for use with shielding bags and clear dissipative poly bags. Allows the user to easily monitor whether or not the package or container has been opened. Includes Caution ESD Susceptibility Symbol and warning message. Labels are an important component assuring that you have the complete protective package.

- **Material**: PE
- **Colour**: Yellow / Green / Red / Zebra
- **Size**: 12 mm / 24 mm Width
- **Thickness**: 50 Microns
- **Length**: 33 Mtrs
- **Surface Resistance**: $10^{11}$ Ohms / Sq
Technical Specifications of Copper Tape

The tape is easily cut to size and may be quickly applied to a specimen mount or other surface. Carbon or metallic coating normally is applied to the sample and mount. An electrical discharge bridge is then completed from sample, through the copper and its conductive glue to the grounded specimen mount.

The tape is dead soft copper with a conductive acrylic adhesive. It is supplied on a removable liner for easy handling and cutting. The tape offers excellent conductivity through the foil backing.

This tape is available from 25mm width to 50mm width Foil Thickness: 0.5 mm to 0.8 mm, length 20 mtrs.
Technical Specifications of Aluminium Tape

- **Material**: Aluminium Tape
- **Colour**: Silver / Aluminium
- **Width**: 1” & 2”
- **Thickness**: 0.5 to 0.9 mm
- **Length**: 33 mtrs
### Technical Specifications of Static Shielding Tape

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Static Shielding Tape</td>
</tr>
<tr>
<td>Colour</td>
<td>Semi – Transparent Silver</td>
</tr>
<tr>
<td>Width</td>
<td>1” &amp; 2”</td>
</tr>
<tr>
<td>Thickness</td>
<td>75 Microns</td>
</tr>
<tr>
<td>Length</td>
<td>33 mtrs</td>
</tr>
</tbody>
</table>
### Technical Specifications of Conductive Grid Tape

- **Size**: 12 mm / 24 mm Width
- **Thickness**: 50 Microns
- **Length**: 33 Mtrs
- **Surface Resistance**: $\leq 10^6$ Ohms
- **Static Charge Generation**: $\leq 200$ Volts
- **Property**: Antistatic

These type are useful to pack the materials being antistatic properties. These type does not generate static charges (normal type generate 5000 – 7000 volts) which might lead to accident.
Technical Specifications for Heat sink silicon sheet  
(Thermally Conductive Electrically Insulated)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Material</td>
<td>Silicon Rubber</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Grey</td>
<td></td>
</tr>
<tr>
<td>Thickness</td>
<td>0.3 mm</td>
<td>ASTM D374</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.6</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Heat Capacity</td>
<td>1.0 J/g-k</td>
<td>ASTM D351</td>
</tr>
<tr>
<td>Hardness</td>
<td>60 +/- 5 Shore</td>
<td>ASTM D2240</td>
</tr>
<tr>
<td>Continuous Use Temp</td>
<td>-60 – 200 °C</td>
<td>EN344</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>&gt; 197 Kgf/cm²</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Tear Strength</td>
<td>&gt; 6.7 Kgf/cm</td>
<td>ASTM D1485</td>
</tr>
<tr>
<td>Elongation</td>
<td>7 – 11 %</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Young’s Modulus</td>
<td>Psi</td>
<td>ASTM D575</td>
</tr>
<tr>
<td>Dielectric Breakdown Voltage:</td>
<td>&gt; 5 KV</td>
<td>ASTM D149</td>
</tr>
<tr>
<td>Dielectric Constant</td>
<td>6.0 0°C-IN²/W</td>
<td>ASTM D150</td>
</tr>
<tr>
<td>Volume Resistivity</td>
<td>10¹¹ Ohms.cm</td>
<td>ASTM D</td>
</tr>
<tr>
<td>Flame Rating</td>
<td>V-0</td>
<td>UL – 94</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>1.0 W/mk</td>
<td>ASTM D5470</td>
</tr>
</tbody>
</table>

Note: The above results are for your reference only.
Technical Specifications of Conductive Tray

- Conductive PP
- Colour: Black
- Size: 280 x 240 x 50 mm
- Surface Resistance: $\leq 10^5$ Ohm
- Volume Resistance: $\leq 10^5$ Ohm
- Static Charge Generation: Nil
- Temperature Resistance: 90°C
### Technical Specifications of Conductive Foam

- **Material**: PU / EVA
- **Colour**: Black
- **Thickness**: 6 mm to 50 mm
- **Surface Resistance**: $< 10^5 \Omega / \text{Sq}$
- **Volume Resistance**: $10^5 \Omega$
- **Static Charge Generation**: Nil
Technical Specifications of Conductive Sample Box

- Conductive P.P
- Colour: Black
- Size: 85 x 45 x 20 mm
- Surface Resistance: $\leq 10^5$ Ohm
- Volume Resistance: $\leq 10^5$ Ohm
- Static Charge Generation: Nil
- Temperature Resistance: 90º C
Technical Specifications of Conductive Crates

- Conductive P.P
- Colour : Black
- Size: 600 x 400 x 220 mm
- Surface Resistance : $\leq 10^5$ Ohm
- Volume Resistance : $\leq 10^5$ Ohm
- Static Charge Generation: Nil
- Temperature Resistance : 90º C
Technical Specifications of Conductive Plastic Tweezers

- **Material**: Conductive HIPS
- **Colour**: Black
- **Surface Resistance**: $\leq 10^5$ Ohms
- **Volume Resistance**: $\leq 10^5$ Ohms – cm
- **Static Charge Generation**: Nil
- **Antistatic Property**: Permanent

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Polymer Alloy Tweezers

*ESD safe, Conductive Plastic Tweezers*

- 702A
- 705
- A 4 1/2" 115mm-B 0.08" 2.0mm-C0.04" 1.0mm
- 707
- A 4 1/2" 115mm-B 0.02" 0.5mm-C0.025" 0.6mm
- 708
- A 4 1/2" 115mm-B 0.02" 0.5nm-C0.045" 1.2mm
- 709
- A 4 1/2" 115mm-B 0.025" 0.6mm-C0.04" 1.0mm
- 710
- A 4 1/2" 115mm-B 0.02" 0.5nm C0.004" 1.6mm-D 0.035 9.0mm- E45'
- carbofib plastic tweezers set: 702ACF, 705CF, 707CF, 708CF, 710CF, plastic wallet
Technical Specifications of Conductive Wheel

- Colour: Black
- Material: Conductive Polymer
- Diameter: 6” x 1½” With bussion bearing mm
- Density: 1.2 +/- 0.1 gms / cm³
- Surface Resistance: \( \leq 10^6 \) Ohms
- Volume Resistance: \( \leq 10^6 \) Ohms - Cm
- Static Generation: Nil
- Antistatic Properties: Permanent
- Load bearing capacity: 500 Kgs for 4 Wheels
- Excellent abrasion, excellent chemical resistance and can withstand till 100°C
- Used for trolley wheels

Additional features: Self lubricating properties
Anti-Electrostatic Brush is the straight-bent holder Anti-Electrostatic Brush which is made by special electric-plastic material. The Brush is used for cleaning all kinds of components. The Plastic Brush do not break the components.
Surface Resistance: $10^4\sim10^6 \Omega$

CT-1849/1850/1851/1852/1853/1854

CT-1849
CT-1850
CT-1851
CT-1852
CT-1853
CT-1854

CT-1856/1858/1859/1860/1857/1855

CT-1856
CT-1858
CT-1859
CT-1860
CT-1857
CT-1855
Conformal coating for printed circuit board

Conformal coating is a product to provide fast drying and clear transparent conformal coating to printed circuit assemblies. It is a single component product having very good solder ability conformal coating protects PCBs from humidity, corrosion, dust and pollution which are responsible for noise. It provides insulation against high voltage arcing and corona shorts.

Conformal coating brings efficiency at your workplace as it is easy to apply, avoids wastage and contamination as well as has a long shelf life. Sprayed coat achieves hard drying in 15 minutes. Coverage too, is commendable. Components may be replaced by soldering or desoldering directly through the coating. Conformal coating also protects other electricals and electronic components from moisture and short circuits.

How to Operate:
Shake can will before use. 
Spray on to the clean surface from a distance of 30 to 40 cms. In light even coats:
Two thin layers are better than one heavy layer.

Precautions:
Contents flammable. Store below 50°C. Do not puncture or incinerate even when empty. Do not spray into naked flame or on incandescent material.

Specifications:
1). Product name : Conformal coating liquid for printed circuit board assemblies
2). Active Ingredients : Uniform blend of resin with neutral solvents hydrocarbon propellant.
4). Colour : Clear
5). Odour : Characteristic Aeromatic
6). Specific Gravity : 0.82 +/- 0.02 gm / cc @ 25°C
7). pH : Neutral
8). Boiling Point : Less than 100°C
9). Solubility in water : Insoluble
10). Physical State : Liquid under pressure
11). Chemical Stability : Stable
12). Incompatibility : Strong oxidiser with other material.

Product Application:
1). Fast drying PCB conformal coating spray.
2). Electrical Insulator
3). Electronic Insulator
4). Insulation against high voltage arcing & corona short.
5). Noise reduction due to conformal coating of components.