

## 3M™ Metal-Out Static Shielding Bag 1500

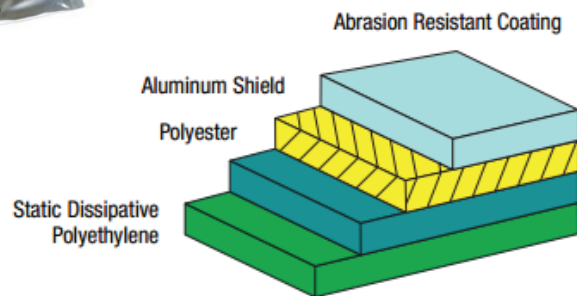
This transparent metal-out static shielding bag is designed to provide a static safe environment for sensitive electronic devices. Bags are printed with an ESD warning symbol and a lot code for traceability. Open top and ZipTop styles are available. The bags are heat sealable.

3M Static Shielding Bags are manufactured from a top coat, metal, polyester, polyethylene laminate. The proprietary top coating is designed to protect the metal layer. Polyester dielectric, in concert with the metal layer, is intended to provide shielding of Electrostatic Discharge (ESD) and to help minimize the penetration of electric field.

These bags are tested to meet or exceed certain electrical and physical requirements of ANSI/ESD S541 and to be ANSI/ESD S20.20 program compliant. Bags are RoHS Compliant\* and lead-free\*\*.



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| Physical            | Typical Value           | Testing Method            |
|---------------------|-------------------------|---------------------------|
| Tensile Strength    | 4900 PSI, 34 MPa        | ASTM D882                 |
| Puncture Resistance | 10 lbs, 44 N            | MIL-STD-3010C Method 2065 |
| Seal Strength       | 14 lbs, 62 N            | ASTM D882                 |
| Thickness           | 3 mils, .0762 mm +/-15% | MIL-STD-3010C Method 1003 |
| Marking Adhesion    | Pass                    | IPC-TM-650 2.4.1          |
| Transparency        | 40%                     | Tobias                    |

| Electrical                    | Typical Value            | Testing Method    |
|-------------------------------|--------------------------|-------------------|
| ESD Shielding                 | <10 nJ                   | ANSI/ESD STM11.31 |
| Surface Resistance - Interior | <1x10 <sup>11</sup> ohms | ANSI/ESD STM11.11 |
| Surface Resistance - Exterior | <1x10 <sup>6</sup> ohms  | ANSI/ESD STM11.11 |
| Static Decay                  | < 2 seconds              | ETS 406D          |
| Charge Retention              | <100 volts               | CPM-3M TP.21XX    |

| Cleanliness | Typical Value | Testing Method |
|-------------|---------------|----------------|
| Silicone    | Not Detected  | FTIR           |

| Heat Sealing Conditions | Typical Value                |
|-------------------------|------------------------------|
| Temperature             | 300°F – 375°F, 149°C – 190°C |
| Time                    | 0.5 – 3.5 seconds            |
| Pressure                | 30 – 70 PSI, 206 – 482 KPa   |

This product is intended for commercial use only. This product is not on the Qualified Product Listing under the Defense Standardization Program.

## 3M™ Metal-Out Static Shielding Bag 1500

### 3M Metal-Out Static Shielding Bags, Open Top 1500

| Dimensions<br>(W x L in.) | Part No. | Dimensions<br>(W x L in.) | Part No. | Dimensions<br>(W x L in.) | Part No. |
|---------------------------|----------|---------------------------|----------|---------------------------|----------|
| 3 x 5                     | 15035    | 8 x 12                    | 150812   | 12 x 18                   | 1501218  |
| 4 x 6                     | 15046    | 9 x 12                    | 150912   | 14 x 18                   | 1501418  |
| 5 x 8                     | 15058    | 10 x 12                   | 1501012  | 15 x 18                   | 1501518  |
| 6 x 8                     | 15068    | 10 x 14                   | 1501014  | 16 x 24                   | 1501624  |
| 6 x 10                    | 150610   | 10 x 24                   | 1501024  | 18 x 18                   | 1501818  |
| 6 x 30                    | 150630   | 11 x 15                   | 1501115  | 18 x 24                   | 1501824  |
| 7 x 15                    | 150715   | 12 x 16                   | 1501216  |                           |          |

Custom Sizes and Printing Available.

### 3M Metal-Out Static Shielding Bags, ZipTop 1500

| Dimensions<br>(W x L in.) | Part No. | Dimensions<br>(W x L in.) | Part No. | Dimensions<br>(W x L in.) | Part No. |
|---------------------------|----------|---------------------------|----------|---------------------------|----------|
| 3 x 5                     | 150Z35   | 6 x 8                     | 150Z68   | 10 x 12                   | 150Z1012 |
| 4 x 4                     | 150Z44   | 6 x 10                    | 150Z610  | 12 x 18                   | 150Z1218 |
| 4 x 6                     | 150Z46   | 8 x 10                    | 150Z810  | 12 x 18                   | 1911218  |

Custom Sizes and Printing Available.

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**\* RoHS 2011/65/EU Compliant** means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty section.

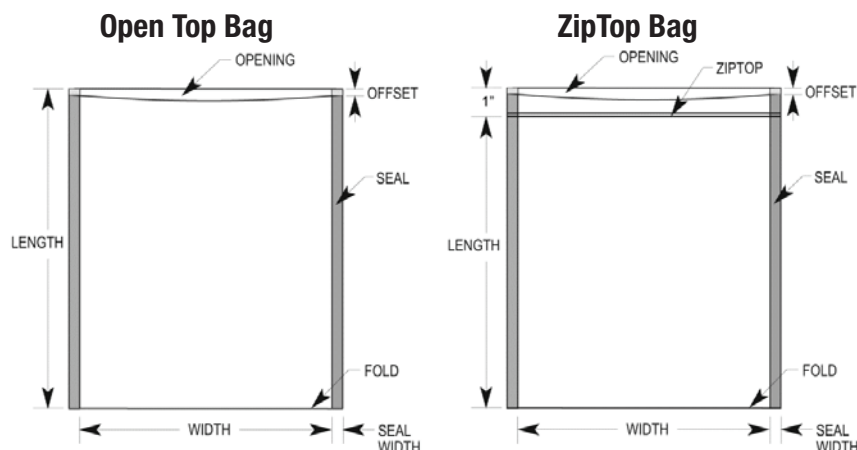
\*\*Lead-free means that the product has less than 2 ppm of lead when tested by ICP-AES, with reference to EPA method 3051A/3052.



#### Electronic Solutions Division Static Control Products

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- Standard sizes stocked for prompt shipment (usually same day).
- Width is measured from inside seam to inside seam.
- Length is measured from the top edge to the bottom fold.
- Opening is in the "width" dimension.
- Custom bag sizes, custom printing, and custom hot stamping are available.
- Most sizes are packed 100 per case.
- Small sizes are packed 500 or 1,000 per case.

Tolerance (inches): Width -0, +0.250  
Length +/- 0.125 Offset 0 to 0.250  
Seal width +/- 0.125

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