Opening STATSHIELD® ESD SHIELDING BAG METAL OUT CONSTRUCTION STATIC SENSITIVE Length (L) DEVICES. HANDLE ONLY AT ESD PROTECTED AREAS. Made in America Weld Width (W) Seal

Side Weld Seals 3/8 in.

See reverse side for available sizes.

A fundamental ESD control principle (see ANSI/ESD S20.20 Foreword):

ESD susceptible items should be transported and stored outside an Electrostatic protected Area enclosed in low charging, static shielding protective packaging.

STATSHIELD® M/O SERIES

Specifications:

Electrical Properties Typical Values Test Procedures/Method Surface Resistance: Outer Surface <10E8 ohms ANSI/ESD S11.11 Aluminum Layer <10E2 ohms ANSI/ESD S11.11 Inner Surface <10E11 ohms ANSI/ESD S11.11 Static Shielding <20 nJ ANSI/ESD S11.31 Charge Generation (nC/in²) Teflon: -0.03 Modified Incline Plane Quartz: +0.10 Modified Incline Plane Capacitance Probe (to dissipate 1 KV) <30V MIL-PRF-81705D, EIA 541

Physical Properties:

Bag Thickness: Polyester Layer 0.5 Mils Static Dissipative PET film ASTM D-2103

Aluminum Layer 10-25 Angstroms Polyethylene Layer 2.5 Mils Static Dissipative PE film ASTM D-2103 Total Thickness 3.0 to 3.1 Mils **ASTM D-2103** Light Transmission (%) 40% (Tobias) **ASTM D-1003** Seam Strength Pass MIL-PRF-81705D Tear Strength (lbs) >25 ASTM D-1004 Puncture Resistance (lbs) >10 **ASTM D-2065** MVTR (gms / 100 in² / 24 hrs, 100°F) 0.40 ASTM F-1249 Burst Strength (psi) >50 psi FTMS 101C, 2065.1

Heat Seal >10 lbs/in. 375°F. 1/2 sec 60 psi Abrasion Resistance >30 cycles Sutherland Abr. (.0000 Steel Wool)

Outgassing Pass ASTM E595 Non-corrosive Pass MIL-STD-3010, M3005

Chemical Properties

Corrosion No effect on aluminum, copper, silver, Sn-Pb coated foil,

stainless steel, low carbon steel

Polycarbonate Capability. Yes

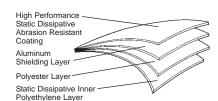
No Amines N-Octanoic Acid Not present



Mixed Unsortable Plastic Scrap

Mixed unsortable plastic scrap shall contain assorted plastics of multiple grades that are co-extruded, bonded or laminated together which are unsortable into individual grades.

Desco's bags are recyclable



The bag's material meets the performance specification requirements of Mil-PRF-81705D, Type III. Bag is free of amines, N-octanoic acid, and heavy metals.

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STATSHIELD® BAG, SHIELDING, METAL OUT CONSTRUCTION



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DESCO EAST: 90 HUDSON RD, CANTON, MA 02021-1407 PHONE (781) 821-8370 FAX (781) 575-0172

DRAWING NUMBER 13010

DATE: 12/06

Item No.	Size (in.) W x L	Item No.	Size (in.) W x L
13010	3 x 5	13080	10 x 14
13020	4 x 6	13090	10 x 24
13035	5 x 8	13110	12 x 16
13050	6 x 10	13115	12 x 18
13065	8 x 10	13125	15 x 18
13070	8 x 12	13130	18 x 18
13075	10 x 12	13135	18 x 24
Packaged 100 per package			

"The Organization shall define ESD protective packaging for all ESD susceptible item material movement within Protected Areas, between job sites and field service operations." See ANSI/ESD S20.20 section 6.2.4.1. Packaging Requirements.

"ESD susceptible items shall be packaged in ESD protective packaging while not in a Protected Area." See ANSI/ESD S20.20 section 6.2.3.1.

Desco ESD Bags Are Generally Reusable

For best results, bag inventory should be continually replenished. It is recommended that standard packs of bags should be stored in its original packaging in a climate controlled environment where the temperature ranges from 45 degrees F to 70 degrees F and relative humidity is 50%. Bags should not be stored in ultraviolet sunlight, moisture, or heat because the aluminum shielding layer could oxidize if exposed to these conditions.

We have no reports of degradation of ESD control properties of bags sealed in original standard pack packaging. Desco's Limited Warranty expressly warrants that for a period of one (1) year from the date of purchase, Desco products will be free of defects in material (parts) and workmanship (labor).

Before using and after one year from purchase date, users shall determine the suitability of the Statshield ESD Bags for their intended use. Users assume all risk and liability whatsoever in connection therewith. Mishandling or improper storage may render an ESD Bag unusable to perform its function. ESD Bags that are ripped, torn, or scratched should be discarded.

From ANSI/ESD S20.20 section 6.2.4.2. Packaging Guidance: "The objective of ESD protective packaging is to prevent a direct electrostatic discharge to the ESDS item contained within and allow for dissipation of charge from the exterior surface. In addition, the packaging should minimize charging of the ESDS item in response to an external electrostatic field and triboelectrification. They may also lose static shielding properties by crumpling, puncturing and folding."

Some end users reuse a Statshield® Transparent Metal In ESD Shielding Bag up to six times and then discard.

Ideally, the user should test, auditing some percentage of the re-used ESD Bags using test procedures outlined in ANSI/ESD-S11.11 Surface Resistivity Standard, ANSI/ESD-S11.12 Volume Resistance Measurements of Static Dissipative Planar Materials, and Shielding Materials ANIS/ESD S11.31.

Desco's only obligation shall be to replace such quantity of the product proved to be defective. See full Limited Warranty information at www.desco.com/Warranty.aspx.

Statshield® bags are packaged 100 per package in an oversized shielding bag rather than a cardboard box. Therefore, our bags are not exposed to water vapors that will degrade the metallized shielding layer. Our bags have an additional layer of barrier protection because of our packaging.

RoHS Compliance Statement

None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1. See Desco Industries Inc. letter online at Desco.com.