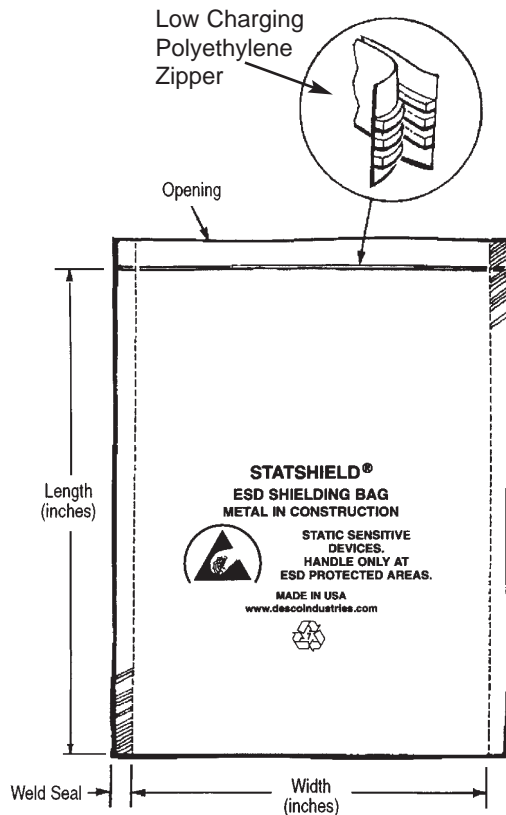


STATSHIELD® M/I SERIES



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.



Made in America

Specifications:

Electrical Properties

Surface Resistance:
Outer Surface
Aluminum Layer
Inner Surface
Static Shielding
Charge Generation

Typical Values

<10¹¹ ohms
<10² ohms
<10¹¹ ohms
<25 nJ
Teflon: 0.09 nC/sq. in.
Quartz: 0.01 nC/sq. in.
<30V

Test Procedures/Method

EOS/ESD S11.11
EOS/ESD S11.11
EOS/ESD S11.11
EOS/ESD S11.31
Modified Incline Plane
Modified Incline Plane
MIL-PRF-81705D, EIA 541

Physical Properties

Bag Thickness:
Polyester Layer
Aluminum Layer
Polyethylene Layer
Total Thickness
Light Transmission (%)
Burst Strength (psi)
Heat Seal (lbs/in)
Seam Strength
Tear Strength (lbs)
Puncture Resistance (lbs)
MVTR (gms / 100 in² / 24 hrs, 100°F)
OTR (cc / 100 in² / 24 hrs)
Abrasion Resistance
Outgassing

0.5 Mils Static Dissipative PET film
10-25 Angstroms
2.5 Mils Static Dissipative PE film
2.8 to 3.0 Mils
>40% (Tobias)
>50
>10
Pass
>25
>10
<0.40
<6.1
>100 cycles
Pass

ASTM D-2103
ASTM D-2103
ASTM D-2103
ASTM D-1003
FTMS 101K, Method 2065.1
375°F, 1/2 sec 60 psi
MIL-PRF-81705D
ASTM D-1004
ASTM D-2065
FTMS 101C/2065
ASTM D-1434
Sutherland Abr. (.0000 Steel Wool)
ASTM E595

Chemical Properties

Corrosion
No effect on aluminum, copper, silver, Sn-Pb coated foil, stainless steel, low carbon steel
Polycarbonate Capability, Yes
No Amines or N-Octanoic Acid Not present

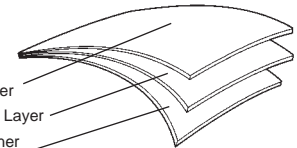


Mixed Unsortable Plastic Scrap

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.

ESD Systems.com's bags are recyclable

Static Dissipative
Outer Polyester Layer
Aluminum Shielding Layer
Static Dissipative Inner
Polyethylene Layer



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.

Statshield®, Statfree®, and Faraday® are Registered Trademarks of Desco Industries Inc.

STATSHIELD® BAG, SHIELDING, METAL IN CONSTRUCTION, ZIPPER

ESD SYSTEMS.com

432 NORTHBORO ROAD CENTRAL
MARLBORO, MA 01752-3170
PHONE (508) 485-7390
FAX (508) 480-0257



Visit our online
library of Tech Drawings:
<http://www.esdsystems.com>

DRAWING NUMBER
TD-30100

DATE
01/06

METAL IN BAG SIZES, WITH ZIPPER

Item #	Size (WxL)	Item #	Size (WxL)	Item #	Size (WxL)
30100	3" x 5"	30119	8" x 8"	30150	12" x 18"
30105	4" x 6"	30120	8" x 10"	30151	14" x 18"
30110	5" x 8"	30125	8" x 12"	30155	15" x 18"
30112	6" x 8"	30130	10" x 12"	30160	18" x 18"
30115	6" x 10"	30135	10" x 14"	30165	18" x 24"
30118	7" x 15"	30145	12" x 16"		
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 paragraph 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 paragraph 6.2.3.1.

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.

Ideally, ESD bags should be stored in a dry, well ventilated room with a reasonably consistent temperature of 68°F (20°C) and be protected from exposure to direct sunlight. Ideally, ESD bags should not be stored in ultraviolet sunlight, moisture, or heat.

The user shall determine the suitability of the product for their intended use. ESD Systems.com's only obligation shall be to replace such quantity of the product proved to be defective. See full Limited Warranty information at www.esdsystems.com/warranty.asp.

ESD Systems.com ESD Bags Are Generally Reusable

The user must determine the suitability of ESD bags for particular applications and after one year from purchase date.

All ESD Shielding Bags that are ripped, torn, or scratched should be discarded. The Bag's protection is lost if there is an electrical path from the charge on the outside of the Bag to the inside layer and ESDS parts within. Scratching may compromise the Faraday Cage shielding protection of shielding bags so they will not perform their function of protecting stored or transported ESD susceptible devices from electrostatic charges and discharges.

From ANSI/ESD S20.20 paragraph 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 EOS/ESD-DS11.11 - 1993 Surface Resistivity Standard, ESD-DS11.12 - 1996 Volume Resistance Measurements of Static Dissipative Planar Materials, and Shielding Materials EOS/ESD DS11.31 -1994.

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 on-line at ESDsystems.com.