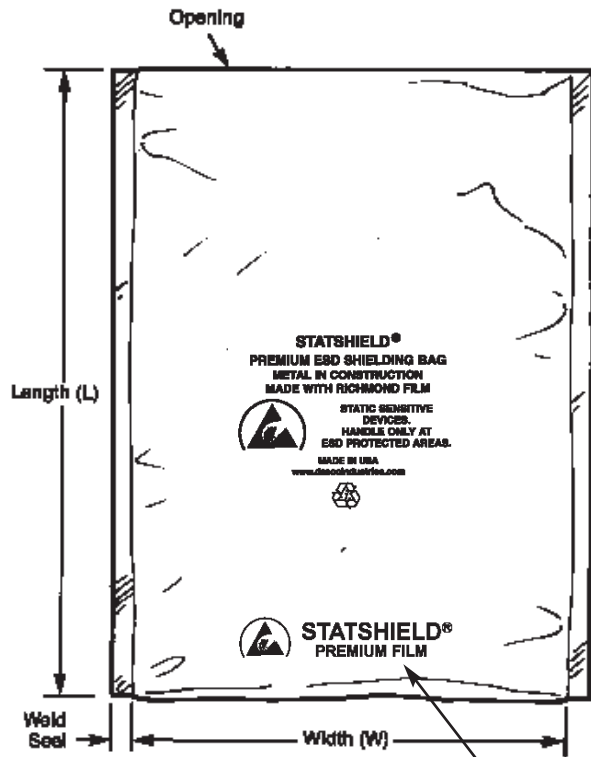


STATSHIELD® M/I SERIES



Side Weld Seals 3/8 in.

See reverse side for available sizes.

The Statshield® watermark ensures you are getting top quality Desco proprietary shielding film manufactured by Richmond, reliably creating a Faraday Cage to protect ESD susceptible devices for storage and transportation outside an ESD protected area.

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.

Specifications:

Electrical Properties

Surface Resistance:
Outer Surface <math><10^{10}</math> ohms
Aluminum Layer <math><10^2</math> ohms
Inner Surface <math><10^{10}</math> ohms
Static Shielding - Energy Penetration <math><15</math> nJ (nanojoules)
Charge Generation Teflon: 0.09 nC/sq. in.
Quartz: 0.01 nC/sq. in.
Capacitance Probe (to dissipate 1 KV) <math><30V</math>

Typical Values

Physical Properties

Bag Thickness:
Polyester Layer 0.5 Mils Static Dissipative PET film
Aluminum Layer 10-25 Angstroms
Polyethylene Layer 2.5 Mils Static Dissipative PE film
Total Thickness 3.1 Mils
Light Transmission (%) >40% (Tobias)
Burst Strength (psi) >50
Heat Seal (lbs/in) >10
Seam Strength Pass
Tear Strength (lbs) >25
Tear Resistance 100 grams/mil
Puncture Resistance (lbs) >12
MVTR (gms / 100 in² / 24 hrs, 100°F) 0.35
Abrasion Resistance >100 cycles
Outgassing Pass
Non-corrosive Pass

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

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

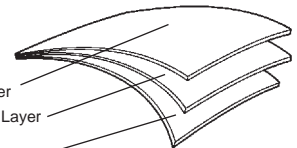


Mixed Unsortable Plastic Scrap

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.

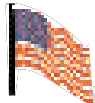
Desco's bags are recyclable

Static Dissipative
Outer Polyester Layer
Aluminum Shielding Layer
High Performance
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.



Made in America

STATSHIELD® PREMIUM BAG, SHIELDING, METAL IN CONSTRUCTION

DESCO WEST: 3651 WALNUT AVE., CHINO, CA 91710 WEB SITE: www.desco.com
PHONE (909) 627-8178 FAX (909) 627-7449

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

DRAWING NUMBER
12700

DATE:
02/06

DESCO

PREMIUM METAL IN BAG SIZES

Item #	Size (WxL)	Item #	Size (WxL)	Item #	Size (WxL)	Item #	Size (WxL)
12700	3" x 5"	12711	6" x 30"	12722	10" x 14"	12734	14" x 16"
12701	4" x 4"	12712	8" x 8"	12723	10" x 16"	12735	14" x 18"
12702	4" x 6"	12713	8" x 10"	12724	10" x 18"	12736	15" x 18"
12703	4" x 24"	12714	8" x 12"	12726	10" x 24"	12737	16" x 18"
12704	4" x 30"	12715	8" x 14"	12727	10" x 30"	12738	16" x 20"
12705	5" x 8"	12716	8" x 16"	12728	11" x 15"	12739	16" x 24"
12706	6" x 8"	12717	8" x 18"	12729	12" x 14"	12740	16" x 30"
12707	6" x 10"	12718	8" x 24"	12730	12" x 16"	12741	18" x 18"
12708	6" x 16"	12719	8" x 30"	12731	12" x 18"	12742	18" x 20"
12709	6" x 18"	12720	9" x 16"	12732	12" x 24"	12743	18" x 24"
12710	6" x 24"	12721	10" x 12"	12733	12" x 30"	12744	24" x 24"

Packaged 100 per package

Desco 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.

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. 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.htm.

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 Desco.com.