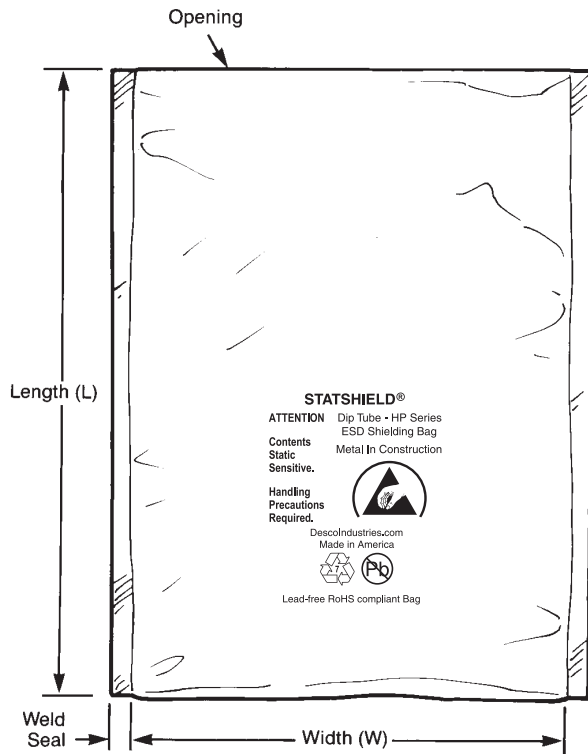


BAG, STATSHIELD®, METAL-IN, HI-STRENGTH M/I SERIES



Side Weld Seals 3/8 in.

See reverse side for available sizes.

Description:

The Desco Statshield® Hi-Strength Static Shielding Bag was originally developed for a leading electronics distributor who was having problems with standard bags ripping and tearing. This Hi-Strength product eliminates tear and puncture issues when dip tubes are packaged. It is an excellent choice for shipping.

ANSI/ESD S541 Section 6.2 Outside an EPA

"Transportation of sensitive products outside of an EPA shall require packaging that provides:

1. Low charge generation
2. Dissipative or conductive materials for intimate contact
3. A structure that provides electrostatic discharge shielding."



Made in America

Specifications:

Electrical Properties

Electrical Properties	Typical Values
Surface Resistance:	
Outer Surface	<10E11 ohms
Aluminum Layer	<10E2 ohms
Inner Surface	<10E11 ohms
Static Shielding	<25 nJ
Charge Generation	Teflon: 0.09 nC/sq. in. Quartz: 0.01 nC/sq. in.
Capacitance Probe (to dissipate 1 KV)	<30V

Physical Properties

Bag Thickness:	Nominal 3.1 Mils
Light Transmission (%)	>40% (Tobias)
Burst Strength (psi)	>100
Heat Seal (lbs/in)	>10
Seam Strength	Pass
Tensile Strength (lbs)	>30
Puncture Resistance (lbs)	>19
MVTR (gms / 100 in ² / 24 hrs, 100°F)	<0.40
OTR (cc / 100 in ² / 24 hrs)	<6.1
Abrasion Resistance	>100 cycles
Outgassing	Pass
Non-corrosive	Pass

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

Test Procedures/Method

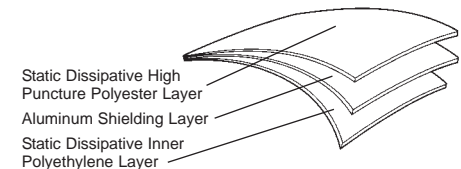
ANSI/ESD STM11.11
ANSI/ESD STM11.11
ANSI/ESD STM11.11
ANSI/ESD STM11.31
Modified Incline Plane
Modified Incline Plane
MIL-PRF-81705D, EIA 541
ASTM D-2103
ASTM D-1003
FTMS 101K, Method 2065.1
375°F, 1/2 sec 60 psi
MIL-PRF-81705D
ASTM D-882
ASTM D-2065
FTMS 101C/2065
ASTM D-1434
Sutherland Abr. (.0000 Steel Wool)
ASTM E595
MIL-STD-3010, M3005



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.

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

BAG, STATSHIELD®, METAL-IN, HI-STRENGTH, 3.1MIL

DESCO

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PHONE (781) 821-8370 FAX (781) 575-0172

DRAWING NUMBER
13920

DATE:
February
2007

BAG SIZES					
Item #	Size (WxL)	Item #	Size (WxL)	Item #	Size (WxL)
13920	4" x 25"	13922	8" x 25"	13924	10" x 25"
13921	4" x 30"	13923	8" x 30"	13925	10" x 30"
Packaged 100 per package					

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-STM11.11 Surface Resistivity Standard, ANSI/ESD-STM11.12 Volume Resistance Measurements of Static Dissipative Planar Materials, and Shielding Materials ANSI/ESD STM11.31.

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.

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.

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.aspx.

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.