

## STATSHIELD® METAL-IN SERIES LEAD-FREE AREA ESD SHIELDING BAG



Side Weld Seals 3/8 in. (±0.10)  
Proprietary film - available only from Desco Industries Inc.

The bag's material meets the performance specification requirements of ANSI/ESD S541.  
Bag is free of amines, N-octanoic acid, and heavy metals.  
Statshield®, Statfree®, and Faraday® are Registered Trademarks of Desco Industries Inc.

### 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](http://Desco.com)

### 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."

### 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

#### Test Procedures/Method

ANSI/ESD S11.11
ANSI/ESD S11.11
ANSI/ESD S11.11
ANSI/ESD S11.31
Modified Incline Plane
Modified Incline Plane
ANSI/EIA 541/Appendix E, 1kV Discharge

#### Physical Properties

Physical Properties	Typical Values	Test Procedures/Method
Bag Thickness:		
Thickness	Nominal .0030" (.0762mm) ±10%	ASTM D-2103
Width (Inside Dimensions)	Nominal -0" / +.125"	
Length (Inside Dimensions)	Nominal ±.125"	
Light Transmission (%)	>40% (Tobias)	ASTM D-1003
Heat Seal (lbs/in)	>10	375°F, 1/2 sec 60 psi
Seam Strength	Pass	ANSI/ESD S541
Tear Strength (lbs)	>25	ASTM D-1004
Puncture Resistance (lbs)	>10	ASTM D-2065
MVTR (gms / 100 in <sup>2</sup> / 24 hrs, 100°F)	<0.40	FTMS 101C/2065
OTR (cc / 100 in <sup>2</sup> / 24 hrs)	<6.1	ASTM D-1434
Abrasion Resistance	>100 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 or N-Octanoic Acid	Not present

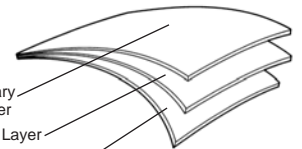


### Mixed Unsortable Plastic Scrap

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**

Low Charging Static  
Dissipative Proprietary  
Outer Polyester Layer  
Aluminum Shielding Layer  
Low Charging Static  
Dissipative Proprietary Inner  
Polyethylene Layer



Made in the  
United States of America

## STATSHIELD® BAG, SHIELDING, METAL-IN CONSTRUCTION, GREEN

# DESCO

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**DRAWING  
NUMBER**  
12780

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