

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



Side Weld Seals 3/8 in.

Proprietary film - available only from
Desco Industries Inc.

See reverse side for available sizes.

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.

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

Capacitance Probe (to dissipate 1 KV)

Typical Values

<10E11 ohms

<10E2 ohms

<10E11 ohms

<25 nJ

Teflon: 0.09 nC/sq. in.

Quartz: 0.01 nC/sq. in.

<30V

Test Procedures/Method

EOS/ESD S11.11

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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 (%)

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

Non-corrosive

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)

>10

Pass

>25

>10

<0.40

<6.1

>100 cycles

Pass

Pass

ASTM D-2103

ASTM D-2103

ASTM D-2103

ASTM D-1003

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

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

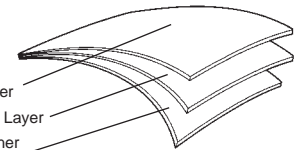
Mixed Unsortable Plastic Scrap



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.

Protective Pak's bags are recyclable

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



STATSHIELD® BAG, SHIELDING, METAL IN CONSTRUCTION, GREEN

PROTEKTIVE PAK

PROTEKTIVE PAK
13520 MONTE VISTA AVENUE, CHINO, CA 91710
PHONE (909) 627-2578, FAX (909) 363-7331
ProtectivePak.com

DRAWING NUMBER
48600

DATE:
6/06

METAL IN BAG SIZES	
Item #	Size (WxL)
48600	4" x 6"
48601	5" x 8"
48602	6" x 10"
48603	8" x 10"
48604	8" x 12"
48605	10" x 12"
48606	10" x 14"
48607	10" x 24"
48608	12" x 18"
48609	15" x 18"
48610	18" x 18"
48611	18" x 24"
Packaged 100 per package	

**Special sizes and printing
available upon request**

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 ProtektivePak.com.

Protektive Pak 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.

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. Protektive Pak's only obligation shall be to replace such quantity of the product proved to be defective. See full Limited Warranty information at www.protektivepak.com/warranty.htm.

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.