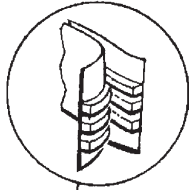
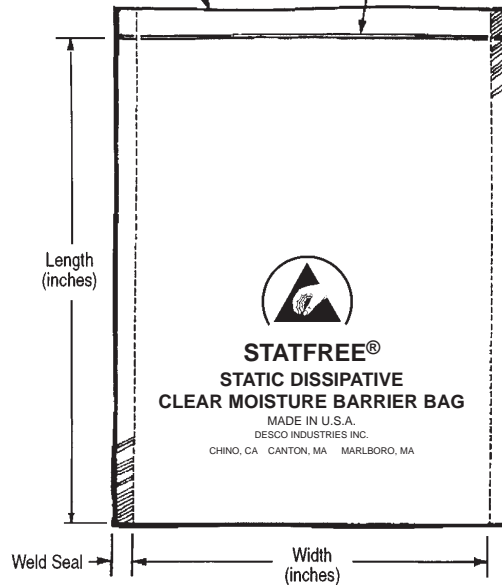


Low Charging
Polyethylene
Zipper



Opening



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

STATFREE® SERIES ULTRA CLEAR BAGS



Specifications:

Electrical Properties

Electrical Properties	Value
Surface Resisitance:	
Inner Layer	<10 ¹¹ ohms
Outer Layer	<10 ¹¹ ohms
Charge Generation (nC/in ²):	
Teflon	-0.10
Quartz	+0.10

Test Procedures/Method

EOS/ESD S 11.11
Modified Incline Plane
Modified Incline Plane

Physical Properties

Bag Thickness (Mils)	3.5 nominal
Tensile Strength (psi)	>5,300 MD/TD
Puncture Res. (lbs)	>25
Tear Strength (lbs)	100 grams/mil
Heat Seal (lbs/in)	>8
Seam Strength	Pass
Burst Strength (psi)	>50
Light Transmission (%)	>90
Abrasion Res (cycles)	>100
MVTR (gms / 100 in ² / 24 hrs, 100°F)	0.35

ASTM D-2103
ASTM D-882
FTMS 101C/2065
ASTM F1249-90
375°F, .75 sec 60 psi
Mil-PRF-81705D
FTMS 101-C, 2065.1
ASTM D-1003
Sutherland Abr (.0000 steel wool)
ASTM F-1249

Chemical Properties

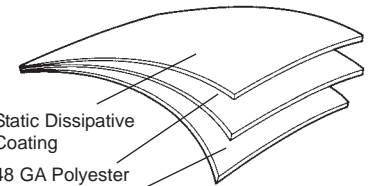
Polycarbonate compatible. No Amines or N-Octanoic Acid.



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
Coating

48 GA Polyester

Static Dissipative
Permatat™ PE

The bag's material meets the performance specification requirements of Mil-PRF-81705D, Type II. Bag is free of amines, N-octanoic acid, and heavy metals.

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

STATFREE® ULTRA CLEAR ESD BARRIER BAGS

DESCO

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
13880

DATE:
01/06

Without Zipper Item No.	Size (in.) W x L	With Zipper Item No.	Size (in.) W x L
13878	3 x 5	13879	3 x 5
13871	4 x 6	13880	4 x 6
13872	5 x 8	13881	5 x 8
13873	8 x 10	13882	8 x 10
13874	10 x 12	13883	10 x 12
13876	12 x 16	13884	12 x 16
13877	12 x 18	13885	12 x 18
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.