



# STATFREE® ESD ULTRA CLEAR BAG

Meets the required limits of ANSI/ESD S20.20, Packaging standard ANSI/ESD S541, and Static Control Bag standard ANSI/ESD S11.4 Level 5.

## Specifications:

### Electrical Properties

Electrical Properties	Typical Value
Surface Resistance: (Interior and Exterior)	$1 \times 10^4$ to $< 1 \times 10^{11}$ ohms
Charge Generation: Teflon	-0.10 (nC/in <sup>2</sup> )
Quartz	+0.10 (nC/in <sup>2</sup> )

### Test Procedures/Method

per ANSI/ESD STM11.11
Modified Incline Plane
Modified Incline Plane

### Physical Properties:

Thickness	Nominal 3.5mil (.09mm) ±10%	MIL-STD-3010, 1003
Width (Inside Dimensions)	Nominal -0" / + 1/4"	
Length (Inside Dimensions)	Nominal +/- 1/8", Offset 0" to 1/4"	
Light Transmission	>90 (%)	STM D-1003
Heat Seal	>8 (lbs/in)	375°F, .75 sec 60 psi
Tensile Strength	>5,300 (MD/TD, psi)	ASTM D-882
Puncture Resistance	>14 lbs	MIL-STD-3010, 2065
Silicone	Not detected	FTIR
MVTR	0.35 (grams / 100 in <sup>2</sup> / 24 hrs)	ASTM F-1249

### Chemical Properties

Polycarbonate compatible: Contains no Amines, Amides, or N-Octanoic Acid.

Bag is free of amines, N-octanoic acid, silicones and heavy metals.

### ANSI/ESD S541 section 6.1 Inside an EPA

"Packaging used within an EPA (that satisfies the minimum requirements of ANSI/ESD S20.20) shall be:

- Low charge generation
- Dissipative or conductive materials for intimate contact"

### RoHS, REACH and Conflict Minerals, Statement

See the Desco Industries RoHS, REACH, and Conflict Minerals Statement:  
[DescoIndustries.com/ROHS3.aspx](http://DescoIndustries.com/ROHS3.aspx)

### See the Desco Limited Warranty:

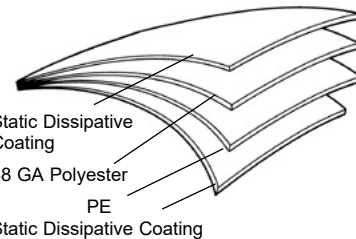
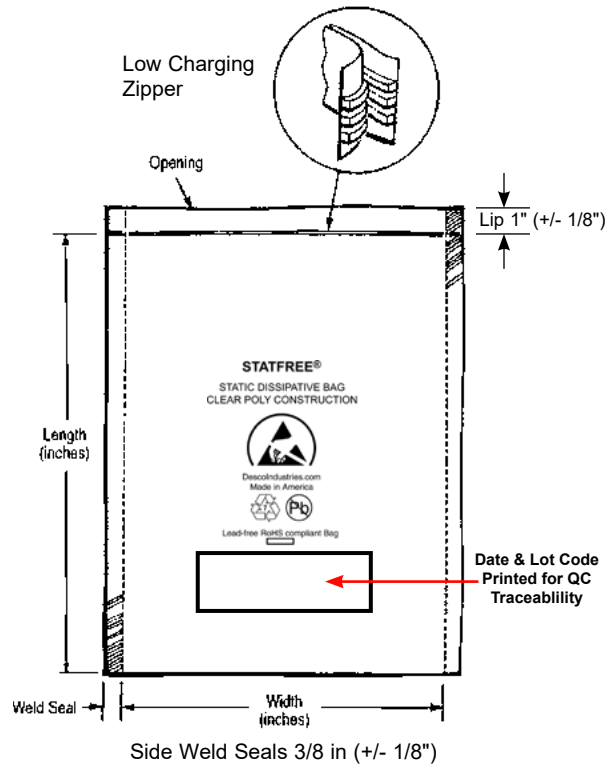
[Desco.DescoIndustries.com/Limited-Warranty.aspx](http://Desco.DescoIndustries.com/Limited-Warranty.aspx)

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See Bag Selection Chart Click [HERE](#).

Specifications and procedures subject to change without notice.



Made in the United States of America



### 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**

Statshield® bags are packaged 100 per package in an oversized shielding bag.  
See Shielding Bag Storage at [TB-7057](#).

# DESCO

## STATFREE® ESD ULTRA CLEAR BAG WITH ZIPPER, 3.5MIL (.09mm)

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PHONE (909) 627-8178

DESCO EAST: ONE COLGATE WAY, CANTON, MA 02021-1407  
PHONE (781) 821-8370

**DRAWING  
NUMBER**  
13880

**DATE:**  
August  
2019

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