



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

Specifications:

Electrical Properties

Electrical Properties	Typical Values
Surface Resistance:	
Outer Surface	<10E11 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

EOS/ESD S11.11
EOS/ESD S11.11
ANSI/ESD STM11.31
Modified Incline Plane
Modified Incline Plane
EIA 541

Physical Properties

Physical Properties	Typical Values
Bag Thickness:	
Thickness	2.8 to 3.0 Mills
Light Transmission (%)	>40% (Tobias)
Heat Seal (lbs/in)	>10
Tensile	9000 PSI
Puncture Resistance (lbs)	>10
MVTR (gms / 100 in ² / 24 hrs, 100°F)	<0.40
OTR (cc / 100 in ² / 24 hrs)	<6.1
Outgassing	Pass
Non-corrosive	Pass

MIL-STD-3010, 1003
ASTM D-1003
375°F, 1/2 sec 60 psi
ASTM 0882
MIL-STD-3010, 2065
FTMS 101C/2065
ASTM D-1434
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
Bag is free of amines, N-octanoic acid, silicones and heavy metals.	

ANSI/ESD STM11.31 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."

RoHS and REACH Compliance Statement

None of the RoHS restricted materials or REACH substances of very high concern are intentionally added in manufacturing this product. Ref: Directive 2002/95/EC Article 4.1. and Regulation (EC) No. 1907/2006. See Desco Industries Inc. Limited Warranty at Charleswater.co.uk.

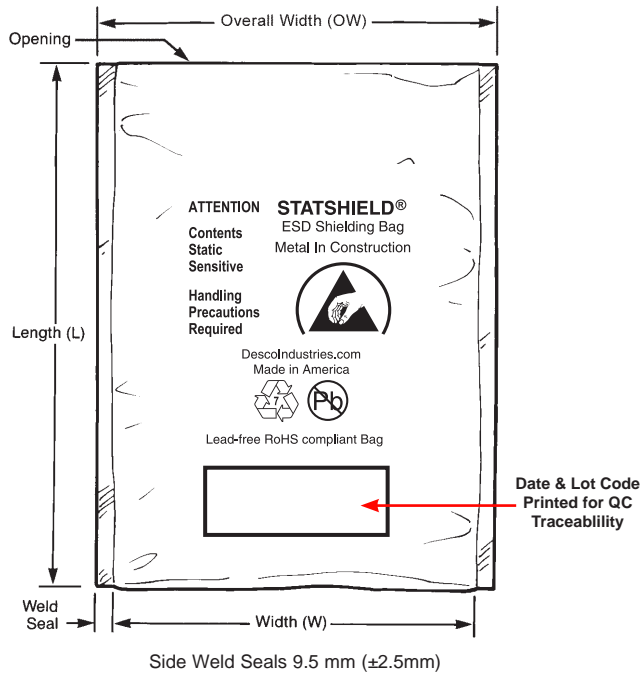
The bag's material meets the required limits of EN 61340-5-1 tested per IEC 61340-2-3 and ANSI/ESD STM11.31.

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

Specifications and procedures subject to change without notice.



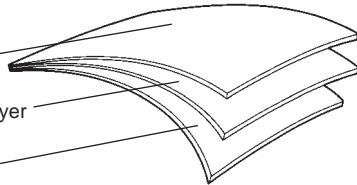
Made in the
United States of America



Static Dissipative
Outer Polyester Layer

Aluminum Shielding Layer

Static Dissipative Inner
Polyethylene Layer



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

Charleswater's bags are recyclable

Statshield® bags are packaged 100 per package in an oversized shielding bag.
Shelf life of bags is minimum one year in normal indoor storage conditions.



Statshield® Bag, Shielding, Metal In Construction, Green

CHARLESWATER LTD.

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Drawing Number
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