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Statshield® Transparent Metal Out ESD Shielding Bags





Charleswater ESD Bags meet EN 61340 5-1 requirements: 1. "Low charging packaging exhibiting properties which minimise any charge generation" [paragraph 3.18.1]. 2. "Electrostatic discharge shielding barrier or enclosure that limits the passage of current and attenuates the energy resulting from an electrostatic discharge such that the maximum energy from 1 000 V human body model discharge is less than or equal to 50 nJ" [paragraph 3.18.2.]. 3. Identified with ESD packaging symbol, manufacturer, and batch identification number [paragraph 4.1.2].

Features:

 Aluminum metal outer layer of laminated film.

Metal out required by many end users. Meets requirements of MIL-PRF-81705D, Type III

40% light transmission.
 Allows for easy identification of bag contents.

• Integral antistatic, low tribocharging properties.

Bag contents will not electrostatically charge during movement.

• Integral static dissipative properties.

Not topically treated, not humidity dependent, won

• Manufactured on specially designed soft fold converting machines.

Prevents scratches and creases maintaining the integrity of Faraday Cage shielding protection.

• Large 9.5mm wide seals - high performance interior sealing layer.

Greater sealing surface provides greater seal strength compared to comparable products with 3.2mm wide seals; higher quality, more durable.

• Marked in accordance with IEC 61340-5-1, paragraph 4.1.2.

ESD packaging symbol communicates that contents are susceptible to damage from an ESD event if not properly handled.

Batch coded.

Quality control traceability.

• Polycarbonate compatible containing no amines or N- octanoic acid.

Non-corrosive, will not contaminate parts.

• Testable to industry standards.

Meets or exceeds one or more of the following standards: electrical and physical requirements of IEC 61340-5-1, ANSI/ESD S20.20, Mil-PRF-81705D, EIA 541, EIA-625, MIL-HDBK-263, MIL-STD-1686, and EIA-583.

Optional antistatic zipper.
 Convenient recloseable seal; reusable.

- Designed to meet the requirements of IEC 61340-5-1
 Sold 100 bags per package in an ESD barrier
- bag.

P/N	Description
90300	75mm x 125mm, Open Bag
90302	100mm x 150mm, Open Bag
90304	100mm x 760mm, Open Bag
90306	125mm x 200mm, Open Bag
90308	150mm x 255mm, Open Bag
90310	150mm x 760mm, Open Bag
90312	200mm x 255mm, Open Bag
90314	200mm x 305mm, Open Bag
90316	255mm x 305mm, Open Bag
90318	255mm x 355mm, Open Bag
90320	255mm x 610mm, Open Bag
90322	280mm x 380mm, Open Bag
90324	305mm x 405mm, Open Bag
90326	305mm x 455mm, Open Bag
90328	380mm x 455mm, Open Bag
90330	455mm x 455mm, Open Bag
90332	455mm x 610mm, Open Bag
90400	75mm x 125mm, Resealable Bag
90402	100mm x 150mm, Resealable Bag
90404	100mm x 760mm, Resealable Bag
90406	125mm x 200mm, Resealable Bag
90408	150mm x 255mm, Resealable Bag
90410	150mm x 760mm, Resealable Bag
90412	200mm x 255mm, Resealable Bag
90414	200mm x 305mm, Resealable Bag
90416	255mm x 305mm, Resealable Bag
90418	255mm x 355mm, Resealable Bag
90420	255mm x 610mm, Resealable Bag
90422	280mm x 380mm, Resealable Bag
90424	305mm x 405mm, Resealable Bag
90426	305mm x 455mm, Resealable Bag

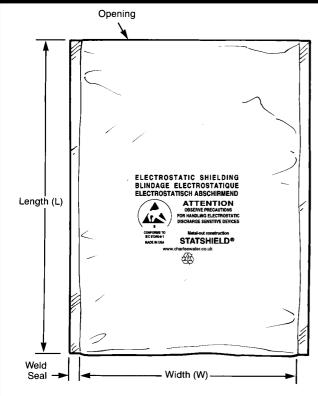
Charleswater

90428	380mm x 455mm, Resealable Bag			
90430	455mm x 455mm, Resealable Bag			
90432	455mm x 610mm, Resealable Bag			
Drawings / Tochnical Rullotins: 90300 F 90400 F				

awings/Technical Bulletins: 90300.E 90400.E

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tel: 01892 665313 fax: 01892 668838 email: service@charleswater.co.uk



Side Weld Seals 3/8 in.

See reverse side for available sizes.

A fundamental ESD control principle (see IEC 61340-5):

ESD susceptible items should be transported and stored outside an Electrostatic protected Area enclosed in low charging, static shielding protective packaging.

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.

STATSHIELD® M/O SERIES

Specifications:

Static Shielding

Electrical Properties Typical Values Test Procedures/Method Surface Resistance: <108 ohms Outer Surface EOS/ESD S11.11 $<10^2$ ohms Aluminum Laver EOS/ESD S11.11 $<10^{12}$ ohms Inner Surface EOS/ESD S11.11

Charge Generation (nC/in²) Teflon: -0.03 Modified Incline Plane Quartz: +0.10 Modified Incline Plane Capacitance Probe (to dissipate 1 KV) MIL-PRF-81705D, EIA 541 <30V

Physical Properties:

Bag Thickness: Polyester Layer 0.5 Mils Static Dissipative PET film ASTM D-2103

<20 nJ

Aluminum Laver 10-25 Anastroms

2.5 Mils Static Dissipative PE film ASTM D-2103 Polyethylene Layer **Total Thickness** 3.0 to 3.1 Mils **ASTM D-2103** Light Transmission (%) 40% (Tobias) **ASTM D-1003** Seam Strength Pass MIL-PRF-81705D Tear Strength (lbs) >25 ASTM D-1004 Puncture Resistance (lbs) >10 **ASTM D-2065** MVTR (gms / 100 in² / 24 hrs, 100°F) **ASTM F-1249** 0.40 Burst Strength (psi) FTMS 101C, 2065.1 >50 psi Heat Seal >10 lbs/in. 375°F, 1/2 sec 60 psi

Abrasion Resistance Sutherland Abr. (.0000 Steel Wool) >30 cycles

Outgassing Pass ASTM F595

Chemical Properties

Corrosion No effect on aluminum, copper, silver, Sn-Pb coated foil,

stainless steel, low carbon steel

Polycarbonate Capability,

No Amines 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.

Charleswater Europe's bags are recyclable

High Performance Static Dissipative Abrasion Resistant Coating Aluminum Shielding Laye Polyester Layer Static Dissipative Inne Polyethylene Layer



Statshield™ Bag, Shielding, Metal Out Construction

CHARLESWATER LTD. UNIT 17. MILLBROOK BUSINESS PARK, SYBRON WAY CROWBOROUGH, EAST SUSSEX TN6 3JZ UNITED KINGDOM PHONE: 00 44 (0) 1892-665313, FAX: 00 44 (0) 1892-668838 INTERNET: www.charleswater.co.uk

Drawing Number 90300.E

EOS/ESD S11.31

DATE: 1/03

Metal Out Bag Sizes W x L (mm)

Item #	Size						
90300	75 x 125	90310	150 x 760	90320	255 x 610	90330	455 x 455
90302	100 x 150	90312	200 x 255	90322	280 x 380	90332	455 x 610
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90306	125 x 200	90316	255 x 305	90326	305 x 455		
90308	150 x 255	90318	255 x 355	90328	380 x 455		_

Charleswater Europe 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.

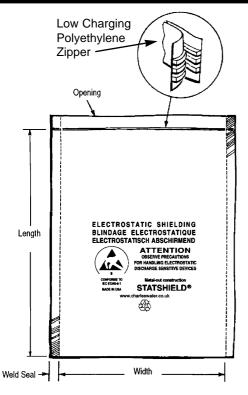
Use Charleswater Europe ESD Bags to meet IEC 61340 5-1 paragraph 6 Protective Packaging states, "The primary functions of protective packaging outside the ESD Protected Area are to:

- limit tribo-electric charging;
- provide shielding against electrostatic fields and discharges.
- The packaging shall be capable of providing charge drainage to EPA ground when brought into an EPA."

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. Charleswater Europe's only obligation shall be to replace such quantity of the product proved to be defective. See full Limited Warranty information at www.charleswater.co.uk/warranty.htm.



Side Weld Seals 3/8 in.

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High Performance
Static Dissipative
Abrasion Resistant
Coating
Aluminum
Shielding Layer
Polyester Layer
Static Dissipative Inner
Polyethylene Layer

CHTSTERMYTES)

Statshield™ Bag, Shielding, Metal Out Construction, Zipper

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