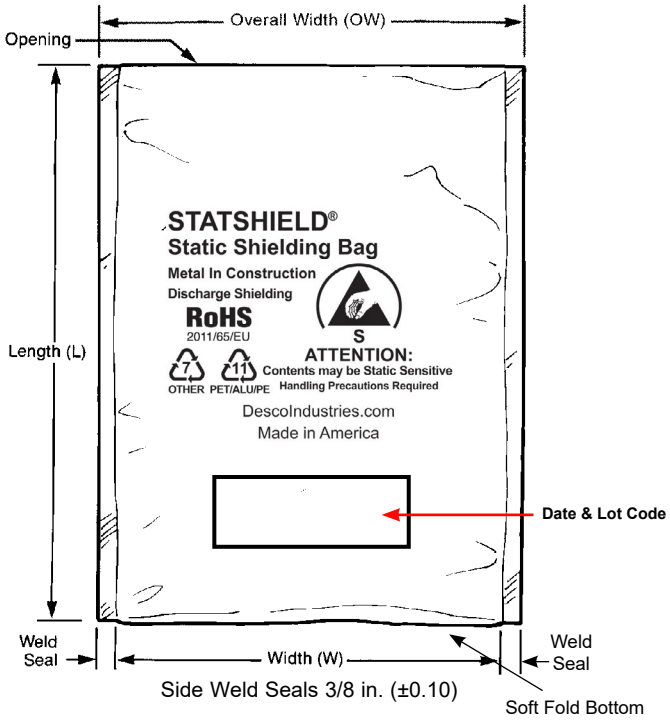
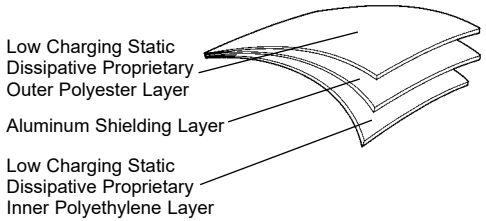
# STATSHIELD® METAL-IN SERIES




*** Bags are printed (hot stamped or thermal transferred) with an ESD protective symbol and a lot code for traceability. ***




## Specifications:

**Standard Document**
ANSI/ESD S541 (ANSI/ESD S20.20)
ANSI/ESD S11.4

**Meets Requirements of:**
ESD Protective Packaging
Level 3 Technical Requirements

| Electrical Properties | Typical Values | Test Procedures/Method |
|---|---|---|
| Surface Resistance: | | |
| Outer Surface | 1 x $10^4$ to < 1 x $10^{11}$ ohms | ANSI/ESD STM11.11 |
| Inner Surface | 1 x $10^4$ to < 1 x $10^{11}$ ohms | ANSI/ESD STM11.11 |
| Discharge Shielding | <20 nJ | ANSI/ESD STM11.31, EIA 541 |
| Charge Generation | Teflon: 0.09 nC/sq. in. | Modified Incline Plane |
| | Quartz: 0.01 nC/sq. in. | Modified Incline Plane |
| Capacitance Probe (to dissipate 1 KV) | <30 volts | ANSI/EIA-541/Appendix E, 1kV Discharge |
| **Physical Properties** | | |
| Film Thickness | Nominal 3.0 mil (0.07mm) ±10% | MIL-STD-3010, 1003 |
| Width (Inside Dimensions) | Nominal -0" / + 0.250" | |
| Length (Inside Dimensions) | Nominal ± 0.125"; Offset 0 to 1/4" | |
| Light Transmission | >40% (Tobias) | ASTM D-1003 |
| Heat Seal | >10 lbs/in | 375°F, 1/2 sec 60 psi |
| Tensile Strength | 4600 PSI, 32 MPa | ASTM D882 |
| Puncture Resistance | >10 lbs | MIL-STD-3010, 2065 |
| Non-corrosive | Pass | MIL-STD-3010, M3005 |
| Silicone | Not detected | FTIR |
| Marking Adhesion | Pass | IPC-TM-650 2.4.1 |

**ANSI/ESD S541 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, REACH and Conflict Minerals Statement**
See the Desco Industries RoHS, REACH, and Conflict Minerals Statement:
https://desco.descoindustries.com/pdf/Regulatory_Statements_Desco_Statshield_Bags.pdf

See the Desco Limited Warranty:
Desco.DescoIndustries.com/Limited-Warranty.aspx

**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.**

Statshield® and Statfree® are Registered Trademarks of Desco Industries Inc.
See Bag Selection Chart Click HERE.

Made in the
United States of America

Specifications and procedures subject to change without notice.

## STATSHIELD® BAG, SHIELDING, METAL-IN, 3.0 MIL (0.07mm)

DESCO

**DESCO WEST:** 3651 WALNUT AVE., CHINO, CA 91710 WEB SITE: Desco.com
PHONE (909) 627-8178

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

**DRAWING NUMBER** 13405

**DATE:** September 2021

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