

# Botron B13000 Technical Data Sheet



## Overview:

Botron's 13000 Series Metal-In Flat Shielding Bags are made from a layered, metalized polyester with static dissipative inner and outer layers. The polyester dielectric and metal layer create a Faraday effect for shielding of ESD. ESD sensitive materials stored inside the bag are provided a static safe environment.

## Product Notes and Features

- Dissipative Outer Layer
- Puncture Resistant
- Metal-in
- Noncorrosive
- Semi Transparent
- ESD Logo

## PROPERTIES

## SPECIFICATIONS

### Surface Resistance

Interior Layer:	<1 x 10 <sup>11</sup> ohms
Exterior Layer:	<1 x 10 <sup>11</sup> ohms
Metal:	<100 ohm
Static Shielding:	<50nJ
Static Decay:	<0.03S
Charge Generation:	<100 volts

### Physical Properties

Tensile Strength:	>5500 psi MD/TD
Light Transmission:	40% +5%
Puncture Strength:	>12 lbs.

### Heat Sealing Conditions

Temperature:	250°F - 375°F
Time:	0.5 - 3.5 seconds
Pressure:	30 - 70 psi

### Thickness:

3.0mils +8%

### Chemical Properties:

Meets standard of RoHS, REACH.  
No Halogen



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**Disclaimer.** All statements of technical information are believed to be true and are based upon tests we believe to be reliable. The proper use and application for this product must be the responsibility of the user. The statements herein shall have no force or effect.

## PART NUMBERS

B13023 Shield-It Metal In Flat Bag 3mil 2" x 3" 100PK  
B13033 Shield-It Metal In Flat Bag 3mil 3" x 3" 100PK  
B13035 Shield-It Metal In Flat Bag 3mil 3" x 5" 100PK  
B13044 Shield-It Metal In Flat Bag 3mil 4" x 4" 100PK  
B13046 Shield-It Metal In Flat Bag 3mil 4" x 6" 100PK  
B13048 Shield-It Metal In Flat Bag 3mil 4" x 8" 100PK  
B13430 Shield-It Metal In Flat Bag 3mil 4" x 30" 100PK  
B13058 Shield-It Metal In Flat Bag 3mil 5" x 8" 100PK  
B13510 Shield-It Metal In Flat Bag 3mil 5" x 10" 100PK  
B13068 Shield-It Metal In Flat Bag 3mil 6" x 8" 100PK  
B13610 Shield-It Metal In Flat Bag 3mil 6" x 10" 100PK  
B13715 Shield-It Metal In Flat Bag 3mil 7" x 15" 100PK  
B13810 Shield-It Metal In Flat Bag 3mil 8" x 10" 100PK  
B13812 Shield-It Metal In Flat Bag 3mil 8" x 12" 100PK  
B13912 Shield-It Metal In Flat Bag 3mil 9" x 12" 100PK  
B131012 Shield-It Metal In Flat Bag 3mil 10" x 12" 100PK  
B131014 Shield-It Metal In Flat Bag 3mil 10" x 14" 100PK  
B131024 Shield-It Metal In Flat Bag 3mil 10" x 24" 100PK  
B131030 Shield-It Metal In Flat Bag 3mil 10" x 30" 100PK  
B131115 Shield-It Metal In Flat Bag 3mil 11" x 15" 100PK  
B131518 Shield-It Metal In Flat Bag 3mil 15" x 18" 100PK  
B131624 Shield-It Metal In Flat Bag 3mil 16" x 24" 100PK  
B131818 Shield-It Metal In Flat Bag 3mil 18" x 18" 100PK  
B131824 Shield-It Metal In Flat Bag 3mil 18" x 24" 100PK

## STANDARDS

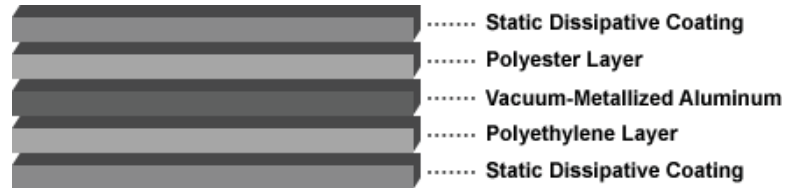
Meets ANSI/ESD S20.20 and Mil-PRF-81705D

## AVAILABLE APPLICATIONS

For use when protecting against corrosive materials and to store static sensitive components for protection against environmental conditions as they pass through production.

## CONSTRUCTION (from outer to inner layer)

B13000 Series Metal-In Bags are constructed of layers that provide Faraday Effect shielding. The polyester dielectric combined with the metal layers prevent penetration of damaging electrostatic fields. Tribocharging is minimized by the specially processed polyethylene.



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