



## Why Choose Charleswater Static Control Bags?

We refuse to put your products at risk. We use only the highest quality materials in our full line of static control bags. Charleswater Shielding and Moisture Barrier Bags are made in America at our Canton, Massachusetts facility on specially designed bag machines. Charleswater Bubble, Bubble Shielding, Pink Antistatic and Black Conductive Bags are made in the United Kingdom at our Letchworth facility.

Outside an ESD protected area, objective of ESD protective packaging is to prevent a direct electrostatic discharge to the ESD sensitive item contained within and allow for dissipation of charge from the exterior surface. In addition, the packaging should minimize charging of the ESD sensitive item in response to an external electrostatic field and triboelectrification. If the user does not know the sensitivity of the items being used, static shielding packaging should be used.



## DETERMINING THE CORRECT BAG FOR YOUR APPLICATION:

### 1. CHOOSE THE CORRECT MATERIAL FOR YOUR BAG:

- Select the bag material from our website: [Charleswater.co.uk](http://Charleswater.co.uk)
- Request a sample of the material
- Evaluate the material

### 2. SHIELDING, BLACK CONDUCTIVE AND PINK ANTISTATIC BAG SIZE APPROXIMATION:

- Bag Width = Item's Thickness + Item's Width + 25mm
- Bag Length = Item's Thickness + Item's Length + 50mm

### 3. MOISUTURE BARRIER BAG SIZE APPROXIMATION:

- Bag Width = Item's Thickness + Item's Width + 25mm
- Bag Length = Item's Thickness + Item's Length + 76mm

### 4. PINK BUBBLE AND BUBBLE SHIELDING APPROXIMATION:

- Bag Width = Item's Thickness + Item's Width + 76mm
- Bag Length = Item's Thickness + Item's Length + 76mm

### 5. MEASURING A BAG:

- Width is measured from inside seam to inside seam.
- Length is measured from the top of the opening to the bottom of the bag.
- Opening is the Width dimension.



# CHARLESWATER BAG CHART

Charleswater can manufacture a variety of different configuration of bags to fit your application. See below for some examples of our capabilities.

## STATSHIELD<sup>®</sup> METAL-IN SHIELDING BAGS:

ESD bags which protect ESD sensitive items. The ESD shielding limits energy penetration from electrostatic charges and discharge. They offer good see-through clarity. Available with and without dissipative zipper.



## STATSHIELD<sup>®</sup> METAL-OUT SHIELDING BAGS:

Integral antistatic and low tribocharging bags which will not electrostatically charge contents during movement. Bags have an aluminum metal outer layer of laminated film. Available with and without dissipative zipper.



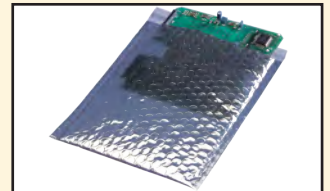
## STATSHIELD<sup>®</sup> MOISTURE BARRIER BAGS:

Offer ESD and moisture protection and can be used to pack SMD reels or trays.



## BUBBLE SHIELDING BAGS:

These bags combine the “Faraday Cage” and mechanical protection. They shield about twice as well as normal shielding bags of equivalent size.



## PINK ANTISTATIC BAGS:

Economical bags which are made of polyethylene. They are for use with non-ESD sensitive items destined for use in an EPA. The bags are 0.07mm thick. Available with and without zipper.



## PINK ANTISTATIC BUBBLE BAGS:

ESD bags which are made of pink-tinted, amine-free, antistatic polyethylene. They provide good mechanical protection.



## CONDUCTIVE BLACK BAGS:

Tough and puncture resistant bags which are made of linear polyethylene with carbon added. The bags are 0.07mm thick and are heat sealable.

