



## ESD BAG SELECTION CHART

Packaging

Physical Properties	Statshield <sup>®</sup> -Standard-Metal In Bags	Statshield <sup>®</sup> -Standard-Metal Out Bags	Statshield <sup>®</sup> -ESD-Moisture Barrier Bags	Bubble Shielding Bags	Antistatic Pink Bags	Antistatic Pink Bubble Bags	Conductive Black Bags
Resistance of polyester outer layer	10E11 ohms	10E8 ohms	10E12 ohms	10E9 to 5 x 10E11 ohms	1010 to 1011 ohms	10E10 to 10E12 ohm	10E5 ohms
Resistance of aluminium layer	10E2 ohms	10E2 ohms	10E2 ohms	10E10 to 10E12 ohms	-	-	-
Resistance of polyethylene	10E11 ohms	10E12 ohms	10E12 ohms	-	10E11 ohms	10E11 ohms	10E11 ohms
Aluminium metal layer location	Between polyester & polyethylene	Outer layer coated with abrasive resistant coating	Dual metal layers between plastic layers	Between polyester & polyethylene	-	-	-
Faraday Cage ESD shielding	Yes	Yes	Yes	Yes	No	No	No
Energy penetration (nanojoules)	<25	<20	<50				
Thickness (nominal)	3.0 mil	3.0 mil	3.6 mil	5mm (height of bubbles)	2.7 mil	5mm (height of bubbles)	2.8 mil
Puncture resistance	>10#	>10#	>20#	>25lbs			
Moisture barrier MVTR	<0.40 grams	<0.40 grams	<0.02 grams	<0.2 grams	>0.8gr/m2 24 hr at 50% rH & 20°C		>0.8gr/m2 24 hr at 50% rH & 20°C
Application	Transport or store ESDs outside protected area	Substitute for Metal In where end user requires	Stands up to many automatic vacuum packaging operations	Transport or store ESD sensitive items that require mechanical protection outside an EPA	Economical bags for use with non-ESD sensitive items destined for use in an EPA	Economical bags for use with non-ESD sensitive items that require mechanical protection destined for use in an EPA	Ideal for storage of ESD sensitive items within an ESD controlled storage area
Durability	Good	Less Durable	Superior	Good	Less Durable	Good	Good
Available with Zipper	Yes	Yes	No	No	Yes	No	No
Part Numbers	<a href="#">201015</a> - <a href="#">201560</a>	<a href="#">202100</a> - <a href="#">202280</a>	<a href="#">204549</a> - <a href="#">204610</a>	<a href="#">200510</a> - <a href="#">200545</a>	<a href="#">203000</a> - <a href="#">204155</a>	<a href="#">202505</a> - <a href="#">202530</a>	<a href="#">203530</a> - <a href="#">203700</a>

### Vermason ESD Bags - Designed for Europe

We refuse to put your products at risk. We use only the highest quality materials in our full line of static shielding bags. Vermason bags are made in America at our Canton, MA facility on specially designed bag machines. Great care is given to produce the finest quality bags.

ESD Bags meet EN 61340 5-1 requirement:

- "low charging packaging exhibiting properties which minimize any charge generation" (paragraph 3.18.1)
- "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)
- Identified with ESD packaging symbol, manufacturer, and batch identification number (paragraph 4.1.2)



See our products being  
Made in America  
on our web site:  
[Desco.com/Factory](http://Desco.com/Factory)



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