

## Poly Double-Onyx™ ESD Wipes

**Product# 6259BESD2**

### Product Description

Poly Double-Onyx™ ESD Wipes are made from 2nd generation black no-run monofilament polyester knit, providing excellent strength, absorbency and chemical compatibility. These wipes are perfect for general cleanroom and equipment maintenance, or any critical applications where lint is not tolerated. The black color makes them uniquely valuable as inspection wipes for light colored soils and dust. The conductive carbon filaments are knitted into both sides of the wipes and twice as densely packed as other ESD wipes, for maximum continuity to ground in the  $10^7$ - $10^9$  range.

- Class 100 – 1000 (ISO 5-6) black, laser-sealed edge polyester wipe
- Static dissipative within  $10^7$ - $10^9$  range for S20.20 compliance
- Conductive material is double-sided and double-density for maximum continuity to ground
- High durability for cleaning rough, abrasive, or irregular surfaces
- Monofilament "no-run" construction does not release loose fibers
- Excellent solvent and acid resistance
- Low ionic, nonvolatile residue and particle contamination
- Good absorbency

### Typical Applications

Poly Double-Onyx™ ESD Wipes can be used to clean:

- Semiconductor wafer fabs
- Aerospace production areas
- Disk drives production areas
- Pharmaceutical / biotechnical production areas
- General cleanroom cleaning
- Dust and make-up detection / inspection
- Clean static sensitive surfaces
- Displays and optics
- Cleaning validation



### Compatibility

Poly Double-Onyx™ ESD Wipes are compatible with most common solvents such as isopropyl alcohol, methanol and ketones such as acetone or methyl ethyl ketone. These wipes are generally compatible with dilute or weak bases, as well as with most dilute or weak acids.

### Availability

**6259BESD2** 9" x 9" (22.9cm x 22.9cm)  
Black, Laser Sealed Edge  
Polyester wipe, 140g/m<sup>2</sup>,  
150/Bag



### Poly Double-Onyx™ ESD Wipes

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#### How To Use

When folded corner-to-corner, Poly Double-Onyx ESD Wipes form a dissipative grid that allows the wipe to be grounded.

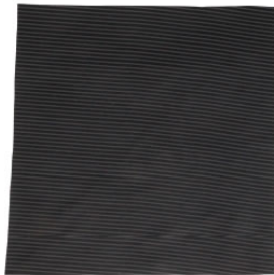
*NOTE: Proper folding is essential to achieving a proper path to ground and static discharge protection.*

*The operator must be grounded with a wrist or heel strap and using ESD-safe gloves.*



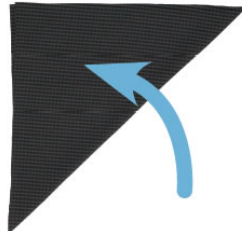
# 1

Flatten wipe



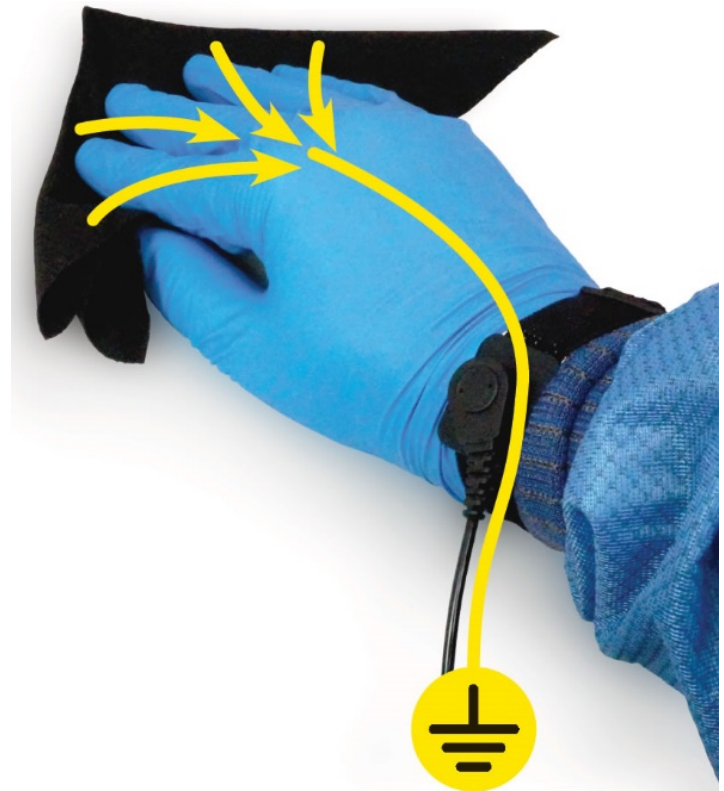
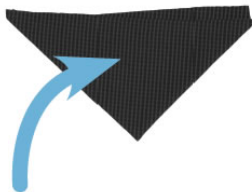
# 2

Fold wipe  
corner-to-corner



# 3

Fold wipe  
corner-to-corner  
again



## Poly Double-Onyx™ ESD Wipes

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Wipe Material	Black ESD Polyester Knit Fabric (Typical Results)
Wipe	6259BESD2
Availability	9" x 9"
Basis Weight	140 g/m <sup>2</sup> (+/- 5 g/m <sup>2</sup> )
Particle Counts (LPC)>= 0.5 microns	6.5 million/m <sup>2</sup>
NVR in DI water	0.045mg/g (45ppm)
NVR in IPA	0.080 mg/g (80 ppm)
FTIR : silicone, amide, phthalates	None Detected
Chloride Ions	0.00002 mg/g (0.02 ppm)
Nitrite Ions	0.00012 mg/g (0.12 ppm)
Nitrate Ions	0.00012 mg/g (0.12 ppm)
Sulphate Ions	0.00040 mg/g (0.40 ppm)
Sodium Ions	0.000135 mg/g (0.135 ppm)
Calcium Ions	0.000026 mg/g (0.026ppm)
Potassium Ions	0.00051 mg/g (0.51 ppm)
Magnesium Ions	0.000016 mg/g (0.016 ppm)
Absorbency (Capacity)	337 ml/m <sup>2</sup>
Absorbency (Rate)	0.8 seconds
Surface resistivity	1 x 10 <sup>7</sup> – 1 x 10 <sup>9</sup> ohm/sq

The wipe tests were done using the recommended practices of the Institute of Environmental Science, Swabs and Wipes Working Group.

### Technical and Application Assistance

Chemtronics provides a technical hotline to answer your technical and application related questions.

The toll free number is: 1-800-TECH-401.

### Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.