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 wipers 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/m², 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

**Product# 6259BESD2**

<table>
<thead>
<tr>
<th>Wipe Material</th>
<th>Black ESD Polyester Knit Fabric (Typical Results)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wipe</td>
<td>6259BESD2</td>
</tr>
<tr>
<td>Availability</td>
<td>9&quot; x 9&quot;</td>
</tr>
<tr>
<td>Basis Weight</td>
<td>140 g/m² (+/- 5 g/m²)</td>
</tr>
<tr>
<td>Particle Counts (LPC)&gt;/= 0.5 microns</td>
<td>6.5 million/m²</td>
</tr>
<tr>
<td>NVR in DI water</td>
<td>0.045mg/g (45ppm)</td>
</tr>
<tr>
<td>NVR in IPA</td>
<td>0.080 mg/g (80 ppm)</td>
</tr>
<tr>
<td>FTIR : silicone, amide, phthalates</td>
<td>None Detected</td>
</tr>
<tr>
<td>Chloride ions</td>
<td>0.00002 mg/g (0.02 ppm)</td>
</tr>
<tr>
<td>Nitrite ions</td>
<td>0.00012 mg/g (0.12 ppm)</td>
</tr>
<tr>
<td>Nitrate ions</td>
<td>0.00012 mg/g (0.12 ppm)</td>
</tr>
<tr>
<td>Sulphate ions</td>
<td>0.00040 mg/g (0.40 ppm)</td>
</tr>
<tr>
<td>Sodium ions</td>
<td>0.000135 mg/g (0.135 ppm)</td>
</tr>
<tr>
<td>Calcium ions</td>
<td>0.000026 mg/g (0.026ppm)</td>
</tr>
<tr>
<td>Potassium ions</td>
<td>0.000016 mg/g (0.16 ppm)</td>
</tr>
<tr>
<td>Magnesium ions</td>
<td>0.000016 mg/g (0.16 ppm)</td>
</tr>
<tr>
<td>Absorbency (Capacity)</td>
<td>337 ml/m²</td>
</tr>
<tr>
<td>Absorbency (Rate)</td>
<td>0.8 seconds</td>
</tr>
<tr>
<td>Surface resistivity</td>
<td>$1 \times 10^{7} \text{ to } 1 \times 10^9$ ohm/sq</td>
</tr>
</tbody>
</table>

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

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**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:**
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