Absorbond® Wipers

Hydroentangled polyester wipers for maximum sorptive capacity and optical applications—best wiper for cleaning oil or grease

Description
Absorbond® is the wiper of choice for critical wiping applications where softness, nonabrasiveness and very low extractable levels of nonvolatile residue are essential. Absorbond is made of 100% hydroentangled polyester. The hydroentanglement process uses jets of water to mechanically entangle the fibers, eliminating the need for chemical binders. Even though Absorbond contains no surfactants, its sorptive capacity is five times its weight. This is due to the density of Absorbond’s fiber structure, which allows for the sorption of liquids through capillary action.

Features
- 100% synthetic fiber (hydroentangled polyester)
- No binders
- SolventSafe Bag-Within-A-Bag® cleanroom packaging
- Statistical Quality Control
- Excellent oil and grease absorption

Benefits
- Provides absorbency up to five times its own weight
- Prevents abrasion with its soft, durable surface
- Prevents product and cleanroom contamination with ultralow levels of particles and extractables
- Assures lot-to-lot traceability

Applications
- Cleaning and absorbing oil and grease
- Very low solvent extractable levels make Absorbond ideal for applications where low nonvolatile residue is essential
- Nonabrasive cleaning and handling of delicate optical-grade components such as coated lenses, fiber optic sensors and mirrors
- Cleaning precision assembly components and sensitive surfaces
- Low-contamination work surface

Products

<table>
<thead>
<tr>
<th>TX Number</th>
<th>Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX404</td>
<td>Absorbond® 4” x 4” (10 cm x 10 cm) hydroentangled polyester wipers</td>
<td>1,200 wipers/bag, 4 inner bags of 300 wipers; 10 bags/case</td>
</tr>
<tr>
<td>TX409</td>
<td>Absorbond® 9” x 9” (23 cm x 23 cm) hydroentangled polyester wipers</td>
<td>300 wipers/bag, 2 inner bags of 150 wipers; 10 bags/case</td>
</tr>
</tbody>
</table>

ITW Texwipe®

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DS-404 ©2009 ITW Texwipe Printed in USA
Effective: December 2009
### Performance Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Test Method*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basis weight</td>
<td>42 g/m²</td>
<td>1, TM20</td>
</tr>
</tbody>
</table>

#### Absorbency

- Sorptive capacity: 210 mL/m²<br> 1, TM20
- Sorptive rate: 1.4 seconds<br> 1, TM20

### Contamination Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Test Method*</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPC</td>
<td></td>
<td>1, TM22</td>
</tr>
<tr>
<td>≥ 0.5 µm</td>
<td>1.3 x 10⁶ particles/m²</td>
<td>1, TM22</td>
</tr>
</tbody>
</table>

#### Particles and fibers

<table>
<thead>
<tr>
<th>Size Range</th>
<th>Typical Value</th>
<th>Test Method*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5-5.0 µm</td>
<td>16 x 10⁶ particles/m²</td>
<td>1, 2, TM22</td>
</tr>
<tr>
<td>5.0-100 µm</td>
<td>200,000 particles/m²</td>
<td>1, 2, TM22</td>
</tr>
<tr>
<td>&gt;100 µm</td>
<td>23,000 fibers/m²</td>
<td>1, 2, TM22</td>
</tr>
</tbody>
</table>

#### Nonvolatile residue

- IPA extractant: 0.01 g/m²<br> 1, TM1
- DIW extractant: 0.005 g/m²<br> 1, TM1

#### Ions

- Sodium: 7.0 ppm<br> 1, TM18
- Potassium: 2.0 ppm<br> 1, TM18
- Chloride: 5.0 ppm<br> 1, TM18

**Note:** The data in this table represent typical analyses of these wipers at the time of publication. These are not specifications.

ITW Texwipe continually refines both its processes and its products.

**Test Methods**


**TM** - Refers to ITW Texwipe Test Method — available upon request, contact ITW Texwipe Customer Service at www.texwipe.com for a copy.

**Absorbency test performed using IPA.**

*ITW Texwipe is the only wiper company to be ISO 9001:2000, 13485:2003, 14001:2004 and OHSAS 18001:1999 registered.*