

## WILLBURGER GmbH Kreativität & Handel

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# TechniCloth® II Wipers

Hydroentangled, nonwoven wiper treated to reduce particle generation



### Description

TechniCloth® II wipers are fabricated from a hydroentangled, nonwoven blend of 55% cellulose and 45% polyester. This fabric blend combines the highly absorbent properties of a natural fiber with the cleanliness and strength of a synthetic wiper. TechniCloth® II features our proprietary ULP (ultralow particulate) treatment, giving it significantly lower particle generation than its predecessor, TechniCloth®.

### Features

- Fiber blend (55% cellulose and 45% polyester)
  - Nonwoven, hydroentangled construction with excellent bidirectional strength
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- ULP process
  - Solvent-safe Bag-Within-A-Bag® cleanroom packaging
  - Statistical quality control

### Benefits

- Reduces particle generation with ULP (ultralow particulate) treatment
- Provides extreme durability and high absorbency with unique cellulose/polyester blend
- Lot-to-lot traceability

### Applications

- Designed for critical environments where low particle generation and high absorbency are prime considerations
- Excellent for use in facilities for integrated circuit, printed circuit board and electronic components fabrications
- Spill control
- Cleaning and polishing precision components
- Class 1,000–10,000 environments

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## Products

TX Number	Description	Packaging
<b>TX1109</b>	TechniCloth®II 9" x 9" (23 cm x 23 cm) cellulose/polyester-blend wipers with ULP treatment	300 wipers/bag, double bagged; 10 bags/case
<b>TX1112</b>	TechniCloth®II 12" x 12" (31 cm x 31 cm) cellulose/polyester-blend wipers with ULP treatment	150 wipers/bag, double bagged; 10 bags/case
<b>TX1118</b>	TechniCloth®II 18" x 18" (46 cm x 46 cm) cellulose/polyester-blend wipers with ULP treatment	75 wipers/bag, double bagged; 10 bags/case

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## TechniCloth® II Wipers TX1109 TX1112 TX1118

### Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	68 g/m <sup>2</sup>	TM2: The Determination of Basis Weight
Absorbency Sorbptive capacity	220 mL/m <sup>2</sup>	TM3: Absorbency and Rate of Absorbency of Wipers TM3: Absorbency and Rate of Absorbency of Wipers
Sorbptive rate	4 seconds	

### Contamination Characteristics

Property	Typical Value	Test Method*
Particles and fibers Particles 0.5-5.0 µm	90 x 10 <sup>6</sup> particles/m <sup>2</sup> **	ASTM E 2090-00: Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy ASTM E 2090-00: Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy
5.0-100 µm	500,000 particles/m <sup>2</sup> **	

Fibers: >100 µm	40,000 fibers/m2**	<u>ASTM E 2090-00</u> : Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy
Nonvolatile residue IPA extractant	0.30 g/m2	TM1: Matter Extractable from Wipers and Other Materials
DIW extractant	0.21 g/m2	<u>TM1</u> : Matter Extractable from Wipers and Other Materials
Ions Sodium	75 ppm	<u>TM12</u> : The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique
Potassium	6 ppm	<u>TM12</u> : The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique
Chloride	28 ppm	<u>TM12</u> : The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique

\*The test procedures available upon request. ASTM procedure available for purchase at [www.astm.org](http://www.astm.org).

\*\*ASTM E 2090 provides a more sensitive test and a more complete measurement of particles and fibers than other standard test methods.