

## WILLBURGER GmbH Kreativität & Handel

Auf der Schuchen 11, 82418 Seehausen

Tel.: +49 8841 3028, Fax: +49 8841 5158; www.willburger-gmbh.eu

# TechniCloth® Wipers

Lowest NVR in a nonwoven blended wiper



## Description

TechniCloth® 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. With its low particle counts, low extractable levels and solvent compatibility, TechniCloth® is ideal for general wiping and spill control in controlled environments.

TechniCloth® is also available pre-wetted as a CleanPak® with isopropyl alcohol/deionized water solution.

## Applications

- Designed for general-purpose wiping where economy and cleanliness are of critical importance
- Ideal for applications where high absorbency and low extractables are prime considerations
- Excellent for picking up aqueous spills
- Suitable for cleaning precision components and lab apparatus

## Features

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

## Benefits

- Excellent wet and dry strength due to the polyester
- Highly absorbent due to the cellulose
- Compatible with most solvents
- Contains no chemical binders
- Low extractable levels

**WILLBURGER GmbH Kreativität & Handel**

Auf der Schuchen 11, 82418 Seehausen

Tel.: +49 8841 3028, Fax: +49 8841 5158; www.willburger-gmbh.eu

**Products**

| <b>TX Number</b> | <b>Dry Wipers</b>   | <b>Packaging</b>  |
|------------------|---|---|
| <b>TX604</b>     | TechniCloth® 4" x 4"<br>(10 cm x 10 cm) nonwoven,<br>cellulose/polyester-blend wipers   | 1,200 wipers/bag,<br>4 inner bags of 300 wipers;<br>10 bags/case          |
| <b>TX606</b>     | TechniCloth® 6" x 6"<br>(15 cm x 15 cm) nonwoven,<br>cellulose/polyester-blend wipers   | 600 wipers/bag,<br>2 inner bags of 300 wipers;<br>10 bags/case            |
| <b>TX609</b>     | TechniCloth® 9" x 9"<br>(23 cm x 23 cm) nonwoven,<br>cellulose/polyester-blend wipers   | 300 wipers/bag,<br>double bagged;<br>10 bags/case                         |
| <b>TX612</b>     | TechniCloth® 12" x 12"<br>(31 cm x 31 cm) nonwoven,<br>cellulose/polyester-blend wipers | 150 wipers/bag,<br>double bagged;<br>10 bags/case                         |
|                  | <b>CleanPaks</b>  |   |
| <b>TX1041</b>    | TechniSat® 9" x 11"<br>(23 cm x 28 cm) TechniCloth®<br>wipers pre-wetted with 70% IPA   | 70 wipers/flip-top tub;<br>12 tubs/case                                   |
| <b>TX1045</b>    | TechniSat® 6" x 8"<br>(15 cm x 20 cm) TechniCloth®<br>wipers pre-wetted with 70% IPA    | 100 wipers/canister;<br>12 canisters/case                                 |
| <b>TX1048</b>    | TechniSat® 8" x 5"<br>(20 cm x 13 cm) TechniCloth®<br>wipers pre-wetted with 6% IPA     | 210 wipers/refill pack;<br>12 refills and 1 reusable<br>flip top tub case |
| <b>TX1065</b>    | TechniSat® 9" x 11"<br>(23 cm x 28 cm) TechniCloth®<br>wipers pre-wetted with 70% IPA   | 50 wipers/FlexPack;<br>24 FlexPacks/case                                  |
|                  | <b>Mop Covers</b>   |   |
| <b>TX627C</b>    | TechniCloth® 15" x 27"<br>(37.5 cm x 67.5 cm)<br>cellulose/polyester blend              | 150 mop covers/bag;<br>4 bags/case  |
| <b>TX630</b>     | TechniCloth® 23.5" x 10"<br>(59 cm x 25 cm)<br>cellulose/polyester blend                | 150 mop covers/bag;<br>10 bags/case                                       |

|  |
|--|
| <b>WILLBURGER GmbH Kreativität &amp; Handel</b>  |
| <b>Auf der Schuchen 11, 82418 Seehausen</b>  |
| <b>Tel.: +49 8841 3028, Fax: +49 8841 5158; <a href="http://www.willburger-gmbh.eu">www.willburger-gmbh.eu</a></b> |

# TechniCloth® Wipers

TX604 TX606 TX609 TX612 TX1041 TX1045  
TX1048 TX1065 TX627C TX630

## Performance Characteristics

| Property          | Typical Value         | Test Method* |
|-------------------|-----------------------|--------------|
| Basis weight      | 71 g/m <sub>2</sub>   | 1, TM2       |
| Absorbency        |                       |              |
| Sorptive capacity | 275 mL/m <sub>2</sub> | 1, TM3       |
| Sorptive rate     | <0.3 seconds          | 1, TM3       |

## Contamination Characteristics

| Property             | Typical Value                                  | Test Method* |
|----------------------|--|--------------|
| Particles and fibers |  |              |
| Particles 0.5-5.0 µm | 123 x 10 <sup>6</sup> particles/m <sub>2</sub> | 1, 2, TM15   |
| 5.0-100 µm           | 2,100,000 particles/m <sub>2</sub>             | 1, 2, TM15   |
| Fibers: >100 µm      | 258,000 fibers/m <sub>2</sub>                  | 1, 2, TM15   |
| Nonvolatile residue  |  |              |
| IPA extractant       | 0.02 g/m <sub>2</sub>                          | 1, TM1       |
| DIW extractant       | 0.05 g/m <sub>2</sub>                          | 1, TM1       |
| Ions                 |  |              |
| Sodium               | 44 ppm   | 1, TM18      |
| Potassium            | 5 ppm  | 1, TM18      |
| Chloride             | 30 ppm   | 1, TM18      |

### \*Test Methods

1 – “Evaluating Wiping Materials Used in Cleanroom and Other Controlled Environments,” IEST-RP-CC 004.3, Institute for

Environmental Sciences and Technology, Rolling Meadows, IL 2004; [www.iest.org](http://www.iest.org).

2 – “Standard Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy,” E2090-00, ASTM International, West Conshohocken, PA, 2000; [www.astm.org](http://www.astm.org).