



An ITW Company

[www.texwipe.eu](http://www.texwipe.eu)

# Vertex<sup>®</sup>

Dry | Pre-Wetted | Sterile



## TECHNICAL DATA SHEET



Vertex® TX29 (top)

Vertex® 40 (bottom)

Vertex®  
100% polyester

### Products

| Number                             | Description   | Sterile | Packaging                            | Case    |
|------------------------------------|---|---------|--------------------------------------|---------|
| <i>Dry Wipers – Vertex®</i>        |   |         |                                      |         |
| <b>TX29</b>                        | 9" x 9" (23 cm x 23 cm) dry   |         | 150 wipers/bag (2 bags of 75 wipers) | 10 bags |
| <b>TX49</b>                        | 9" x 9" (23 cm x 23 cm) dry   |         | 150 wipers/bag                       | 10 bags |
| <b>TX3049</b>                      | 9" x 9" (23 cm x 23 cm) dry, sterile                                  | ●       | 100 wipers/bag (5 bags of 20 wipers) | 5 bags  |
| <b>TX3221</b>                      | 11" x 11" (28 cm x 28 cm) dry, sterile                                | ●       | 100 wipers/bag (5 bags of 20 wipers) | 5 bags  |
| <b>TX42</b>                        | 12" x 12" (31 cm x 31 cm) dry   |         | 100 wipers/bag                       | 10 bags |
| <b>TX3042</b>                      | 12" x 12" (31 cm x 31 cm) dry, sterile                                | ●       | 100 wipers/bag (5 bags of 20 wipers) | 5 bags  |
| <b>TX4393</b>                      | 10" x 10" (25 cm x 25 cm) dry   |         | 75 wipers/bag                        | 4 bags  |
| <b>STX4394</b>                     | 10" x 10" (25 cm x 25 cm) dry, sterile                                | ●       | 100 wipers/bag (4 bags of 25 wipers) | 4 bags  |
| <i>Pre-Wetted Wipers – Vertex®</i> |   |         |                                      |         |
| <b>TX49P</b>                       | 9" x 9" (23 cm x 23 cm) pre-wetted with 70% IPA                       |         | 75 wipers/reclosable bag             | 4 bags  |
| <b>TX3049P</b>                     | 9" x 9" (23 cm x 23 cm) pre-wetted with 70% IPA, sterile              | ●       | 25 wipers/reclosable bag             | 5 bags  |
| <b>TX42P</b>                       | 12" x 12" (31 cm x 31 cm) pre-wetted with 70% IPA                     |         | 50 wipers/reclosable bag             | 4 bags  |
| <b>TX3042P</b>                     | 12" x 12" (31 cm x 31 cm) pre-wetted with 70% IPA, sterile            | ●       | 25 wipers/reclosable bag             | 5 bags  |
| <b>TX3044P</b>                     | 12" x 12" (31 cm x 31 cm) pre-wetted with 70% EtOH (ethanol), sterile | ●       | 25 wipers/reclosable bag             | 5 bags  |

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### Description

Vertex® is made from 100% polyester material with a sealed edge processed on Texwipe's fully automated manufacturing system.

Available dry (Vertex®), pre-wetted (Vertex® pre-wetted) and sterile.

### Applications

- Wiping and cleaning surfaces, equipment and parts.
- Applying and removing lubricants, adhesives, residues and other solutions including disinfectants.
- Cleaning with solvents such as isopropyl alcohol (IPA), ethanol, acetone, and degreasers.
- Lining trays for holding, protecting, drying and storing of parts, equipment and devices.
- Dry Wipers: Appropriate for use with temperatures less than 400°F (205°C).
- Pre-wetted Wipers: Use with caution at elevated temperatures.

### Industries

|                        |                        |                       |
|------------------------|------------------------|-----------------------|
| Aerospace              | Animal Laboratory      | Biologics             |
| Cleanroom Design/Build | Compounding Pharmacies | Data Storage          |
| Facilities Maintenance | Industrial             | Laboratory            |
| Medical Device         | Microelectronics       | Pharmaceutical        |
| Printing/Graphics      | Semiconductor          | USP <797> / USP <800> |

### Features & Benefits

- Vertex® processing provides low levels of ions, NVRs (non-volatile residues), particles and fibers for use in critical cleaning applications and environments.
- Tested quarterly for cytotoxicity and bacterial endotoxins for an extra level of contamination control assurance.
- Designed for high sorption capacity which is ideal for spill control, cleaning, and solution application.
- Vertex® pre-wetted products are pre-wet with 0.2 µm filtered 70% USP-grade IPA / 30% DIW or 70% Denatured Ethanol / 30% DIW for ease of use.
- Vertex® pre-wetted wipers provide consistent, optimized cleaning efficiency with repeatable wetness and VOC levels.
- Pre-wetted wipers are packaged in easy-to-use, recloseable slider bags reducing solution evaporation that preserves the consistent wiper wetness level.
- Meets USP <797> and USP <800> wiper requirements.
- Autoclave safe (dry wipers only).
- Individually lot coded for ease of traceability and quality control.

### Sterile Products

- Irradiated to a Sterility Assurance Level of 10<sup>-6</sup> according to AAMI Guidelines.
- Certificates of Compliance, Analysis and Irradiation attached to each case.
- Sterile Validation Documentation available upon request.

### Cleanroom Environment

- ISO Class 3 – 7
- Class 1 – 10,000
- EU Grade A – D

### Shelf Life

- Non-Sterile (Dry) – 5 years from date of manufacture
- Non-Sterile (Pre-Wetted) – 3 years from date of manufacture
- Sterile (Dry & Pre-Wetted) – 3 years from date of manufacture

*Custom products available upon request.*

## TECHNICAL DATA SHEET

**Performance Characteristics**

| Property                    | Typical Value                                  |  |  | Test Method* |
|-----------------------------|--|--|--|--------------|
|                             | TX29   | 40 Series                                      | TX3221, TX4393, STX4394                        |              |
| <b>Particles and Fibers</b> |  |  |  |              |
| LPC: $\geq 0.5 \mu\text{m}$ | 7.4 x 10 <sup>6</sup> particles/m <sup>2</sup> | 9.5 x 10 <sup>6</sup> particles/m <sup>2</sup> | 8.2 x 10 <sup>6</sup> particles/m <sup>2</sup> | 1, TM22      |
| Fibers: $> 100 \mu\text{m}$ | 200 fibers/m <sup>2</sup>                      | 200 fibers/m <sup>2</sup>                      | 500 fibers/m <sup>2</sup>                      | 2, TM22      |
| <b>Nonvolatile Residue</b>  |  |  |  |              |
| IPA extractant              | 0.02 g/m <sup>2</sup>                          | 0.02 g/m <sup>2</sup>                          | 0.02 g/m <sup>2</sup>                          | 1, TM1       |
| DIW extractant              | 0.01 g/m <sup>2</sup>                          | 0.01 g/m <sup>2</sup>                          | 0.01 g/m <sup>2</sup>                          | 1, TM1       |
| <b>Ions</b>                 |  |  |  |              |
| Sodium                      | 0.08 ppm                                       | 0.17 ppm                                       | 0.05 ppm                                       | 1, TM18      |
| Potassium                   | 0.03 ppm                                       | 0.01 ppm                                       | 0.07 ppm                                       | 1, TM18      |
| Chloride                    | 0.02 ppm                                       | 0.05 ppm                                       | 0.02 ppm                                       | 1, TM18      |

**Physical Characteristics**

| Property            | Typical Value         |                       |                         | Test Method* |
|---------------------|-----------------------|-----------------------|-------------------------|--------------|
|                     | TX29                  | 40 Series             | TX3221, TX4393, STX4394 |              |
| <b>Absorbency</b>   |                       |                       |                         |              |
| Sorptive capacity   | 350 mL/m <sup>2</sup> | 450 mL/m <sup>2</sup> | 680 mL/m <sup>2</sup>   | 1, TM20      |
| Sorptive rate       | 0.3 second            | 0.3 second            | <1 second               | 1, TM20      |
| <b>Basis Weight</b> | 130 g/m <sup>2</sup>  | 130 g/m <sup>2</sup>  | 214 g/m <sup>2</sup>    | 1, TM20      |

**\*Test Methods**

- 1 – “Evaluating Wiping Materials Used in Cleanroom and Other Controlled Environments,” IEST-RP-CC004.3, Institute for Environmental Sciences and Technology, Rolling Meadows, IL, 2004; [www.iest.org](http://www.iest.org).
- 2 – E2090-12, “Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Cleanroom Wipers Using Optical and Scanning Electron Microscopy,” ASTM International, West Conshohocken, PA, 2012; [www.astm.org](http://www.astm.org).
- TM – Refers to Texwipe Test Method – available upon request. Contact Texwipe Customer Service at [www.texwipe.eu](http://www.texwipe.eu) or [texwipe@itw-cc.com](mailto:texwipe@itw-cc.com) for a copy.

Note: The data in this table represent typical analyses.

*Texwipe holds ISO 9001:2015 registration.*

*All Texwipe products conform to GHS classification for labeling (where applicable).*

*Shipping classification based on weight of inner package.*