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# Vertex<sup>®</sup> Microdenier

Dry Wipers



TECHNICAL DATA SHEET



Vertex®  
Microdenier, 100% polyester



Made in USA

## Products

Number	Description	Sterile	Packaging	Case
<i>Dry Wipers – Vertex®</i>				
<b>TX59</b>	9" x 9" (23 cm x 23 cm) dry		150 wipers/bag	10 bags

### T E C H N I C A L   D A T A   S H E E T

#### Description

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

Vertex® advances wiper manufacturing technology, bringing it to the highest level in the industry.

Available dry (Vertex® Microdenier).

#### 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.
- Appropriate for use with temperatures less than 400°F (205°C).

#### 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® Microdenier offers increased lifting and capturing of particles as small as microbes.
- Quick wicking performance, ideal for streak-free cleaning and spill control.
- Ideal for wiping surfaces susceptible to scratching.
- Unique microdenier construction allows the removal of oils and fingerprints.
- Nylon-free and compatible for applying Quaternary Ammonium Compounds (Quats) and other disinfectants and cleaners.
- Tested for cytotoxicity and bacterial endotoxins for an extra level of contamination control assurance.
- Manufactured to provide low levels of particles and extractables creating a wiper suitable for critical cleaning and wiping.
- Meets USP <797> and USP <800> wiper requirements.
- Autoclave safe.
- Individually lot coded for ease of traceability and quality control.

#### Cleanroom Environment

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

#### Shelf Life

- Non-Sterile (Dry) – 5 years from date of manufacture

*Custom products available upon request.*

## TECHNICAL DATA SHEET

### Performance Characteristics

Property	Typical Value	Test Method*
<b>Particles and Fibers</b> LPC: $\geq 0.5 \mu\text{m}$ Fibers: $> 100 \mu\text{m}$	$9.0 \times 10^6$ particles/m <sup>2</sup> 320 fibers/m <sup>2</sup>	1, TM22 2, TM22
<b>Nonvolatile Residue</b> IPA extractant DIW extractant	0.07 g/m <sup>2</sup> 0.01 g/m <sup>2</sup>	1, TM1 1, TM1
<b>Ions</b> Sodium Potassium Chloride	<0.30 ppm <0.80 ppm <0.10 ppm	1, TM18 1, TM18 1, TM18

### Physical Characteristics

Property	Typical Value	Test Method*
<b>Absorbency</b> Sorptive capacity Sorptive rate	350 mL/m <sup>2</sup> 0.3 secondd	1, TM20 1, TM20
<b>Basis Weight</b>	190 g/m <sup>2</sup>	1, TM20

#### \*Test Methods

- 1 – “Evaluating Wiping Materials Used in Cleanroom and Other Controlled Environments,” IEST-RP-CC004.4, Institute for Environmental Sciences and Technology, Schaumburg, IL, 2019; [www.iest.org](http://www.iest.org).
- 2 – E2090-12(2020), “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, 2020, [www.astm.org](http://www.astm.org).
- TM – Refers to Texwipe Test Method – available upon request. Contact Texwipe Customer Service at [www.texwipe.com](http://www.texwipe.com) or [info@texwipe.com](mailto:info@texwipe.com) for a copy.

Note: The data in this table represent typical analyses.

*Texwipe holds ISO 9001 registration.*

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

*Shipping classification based on weight of inner package.*