

# Vectra® Quantum® 100 Wipers

Premium polyester sealed-border wipers for critical cleaning applications



## Description

The sealed-border wiper is the premium double-knit polyester, single-ply wiper for critical cleaning applications in ISO Class 3 to 5 manufacturing environments. The unique fiber and knit structure create the highest absorbency and the softest texture of all single-ply, sealed-border wipers. All four edges of the wiper are sealed to prevent the release of fibers and particles.

## Features

- 100% synthetic fiber construction
- Continuous-filament, double-knit polyester fabric
- Thermally sealed border on all four edges using Texwipe's patented sealed-edge technology\*
- Vectra® processed and packaged at Texwipe's Cleanroom Products Manufacturing Center
- Solvent resistant Bag-Within-A-Bag® cleanroom packaging
- Statistical quality control

## Benefits

- Ultralow particulate, fiber, ionic and extractable levels prevent product and cleanroom contamination
- High absorbency minimizes cleaning effort
- Soft, nonabrasive surface
- Lot-to-lot traceability

## Applications

- ISO Class 3 to 5 cleanroom environments
- Ideal for maintenance of work surfaces
- Excellent as a clean work surface or for transport of sensitive parts
- Can be used with deionized water, isopropyl alcohol or other solvents for cleaning of critical surfaces

## Products

TX Number	Description	Packaging
<b>TX1029</b>	Vectra® Quantum® 100 9" x 9" nominal (23 cm x 23 cm) double-knit polyester, sealed-border wipers	100 wipers/bag, 2 inner bags of 50 wipers; 10 bags/case

\*Patent #4,888,229



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# Vectra® Quantum® 100 Wipers

TX1029

## Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	127 g/m <sup>2</sup>	1, TM20
Absorbency		
Sorptive capacity	385 mL/m <sup>2</sup>	1, TM20
Sorptive rate	0.5 seconds	1, TM20

## Contamination Characteristics

Property	Typical Value	Test Method*
LPC		
≥ 0.5 µm	3.7 x 10 <sup>6</sup> particles/m <sup>2</sup>	1, TM22
Particles and fibers		
Particles 0.5-5.0 µm	1.3 x 10 <sup>6</sup> particles/m <sup>2</sup>	1, 2, TM22
5.0-100 µm	89,000 particles/m <sup>2</sup>	1, 2, TM22
Fibers: >100 µm	140 fibers/m <sup>2</sup>	1, 2, TM22
Nonvolatile residue		
IPA extractant	0.02 g/m <sup>2</sup>	1, TM1
DIW extractant	0.008 g/m <sup>2</sup>	1, TM1
Ions		
Sodium	0.07 ppm	1, TM18
Potassium	0.06 ppm	1, TM18
Chloride	0.01 ppm	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

- 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).
- TM – Refers to ITW Texwipe Test Method — available upon request, contact ITW Texwipe Customer Service at [www.texwipe.com](http://www.texwipe.com) for a copy.

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