

# Vectra® Alpha® 10 Wipers

Vectra® Process premium polyester sealed-border wipers



## Description

Vectra® Alpha® 10 represents the state of the art in wiper technology and provides maximum performance in critical cleanroom environments.

ITW Texwipe's proprietary Vectra® Process cleans the wipers more efficiently than any cleanroom laundry. ITW Texwipe's patented\* sealed-border technology produces four fully sealed borders to prevent the release of fibers and particles. The fabric is a no-run interlock, double-knit from 100% continuous-filament polyester.

Alpha® 10 wipers are also available pre-wetted in CleanPaks®. It combines the Alpha® 10 wipers with semiconductor-grade isopropyl alcohol in convenient, reclosable slider bags.

## Features

- Excellent balance of wiping efficiency, abrasion resistance and absorbency
- Fully sealed border to prevent fiber release
- Vectra® Process for the cleanest, most consistent wipers
- 100% continuous-filament, double-knit polyester
- Solvent-safe Bag-Within-A-Bag® cleanroom packaging
- Statistical quality control/Six Sigma Quality Assurance

## Benefits

- Assures cleanliness with ultralow levels of ions and extractables
- Resists abrasion under rigorous use or when wiping rough surfaces
- Helps prevent product and cleanroom contamination by minimizing fiber and particle release
- Complete traceability of each bag

## Applications

- Designed for use in ISO Class 3–5 cleanroom environments
- Ideal for wiping interior of process tools and other equipment
- Superior for general wiping in environments where contamination control is of paramount importance
- The best wiper for multiple applications

## Products

TX Number	Dry Wipers	Packaging
<b>TX1010</b>	Vectra® Alpha® 10 9" x 9" nominal (23 cm x 23 cm) double-knit polyester, sealed-border wipers	100 wipers/bag, 2 inner bags of 50; 10 bags/case
<b>TX1012</b>	Alpha® 10 <sup>†</sup> 12" x 12" nominal (31 cm x 31 cm) double-knit polyester, sealed-border wipers	100 wipers/bag, double bagged; 10 bags/case
CleanPaks		
<b>TX8410</b>	AlphaSat® with Vectra® Alpha® 10 9" x 9" nominal (23 cm x 23 cm) wipers pre-wetted with 100%IPA	50 wipers/ reclosable bag 12 bags/case

\*Patent #4,888,229

<sup>†</sup>Not Vectra® processed

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# Vectra® Alpha® 10 Wipers

TX1010 TX1046 TX8410

## Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	130 g/m <sup>2</sup>	1, TM20
Absorbency		
Sorptive capacity	320 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	2.9 x 10 <sup>6</sup> particles/m <sup>2</sup>	1, TM22
Particles and fibers		
Particles 0.5–5.0 µm	1.7 x 10 <sup>6</sup> particles/m <sup>2</sup>	1, 2, TM22
5.0–100 µm	37,000 particles/m <sup>2</sup>	1, 2, TM22
Fibers >100 µm	100 fibers/m <sup>2</sup>	1, 2, TM22
Nonvolatile residue		
IPA extractant	0.02 g/m <sup>2</sup>	1, TM1
DIW extractant	0.003 g/m <sup>2</sup>	1, TM1
Ions		
Sodium	0.04 ppm	1, TM18
Potassium	0.04 ppm	1, TM18
Chloride	0.009 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.*