

Vectra® AlphaSorb® 10 Wipers

High-sorbency performance in a premium, sealed-border polyester wiper for critical cleanroom environments



Description

Vectra® AlphaSorb® 10 is a sealed-border, two-ply, double-knit, 100% continuous-filament polyester wiper offering high-sorbency performance. All four cut edges of the wiper are thermally sealed, forming a border to prevent particle and fiber release. AlphaSorb® 10 represents state-of-the-art wiper technology and provides the optimum combination of features in a cleanroom wiper—absorbency, cleanliness and abrasion resistance.

AlphaSorb® 10 is also available pre-wetted as a CleanPak® with a semiconductor-grade isopropyl alcohol/deionized water solution. It is packaged in a convenient, resealable dispenser bag.

Features

- 100% synthetic fiber (continuous-filament, double-knit polyester)
- Unique two-ply, pinsoniced construction
- Thermally sealed border
- Laundered and packaged at ITW Texwipe's Cleanroom Products Manufacturing Center
- Solvent-safe Bag-Within-A-Bag® cleanroom packaging
- Statistical quality control

Benefits

- Reduces wiper usage with high-absorbency, two-ply construction
- Assures cleanliness with ultralow levels of particles and extractables
- Helps prevent cleanroom contamination by minimizing fiber and particle release
- Resists abrasion under rigorous use
- Bag-to-bag traceability

Applications

- Engineered for high-sorbency use in the most critical cleanroom environments, such as semiconductor and pharmaceutical manufacturing
- Two-ply construction for both spill control and general wiping areas where contamination control and absorbency are of paramount importance

Products

TX Number	Dry Wipers	Packaging
TX1050	Vectra® AlphaSorb® 10 9" x 9" nominal (23 cm x 23 cm) two-ply, double-knit polyester, sealed-edge wipers	100 wipers/bag, 2 inner bags of 50 wipers; 10 bags/case
TX1052*	AlphaSorb® 10 12" x 12" nominal (31 cm x 31 cm) two-ply, double-knit polyester, sealed-edge wipers	100 wipers/bag, double bagged; 10 bags/case
CleanPaks		
TX1057	AlphaSat® 9" x 9" nominal (23 cm x 23 cm) wipers pre-wetted with 10% IPA/90% DIW	40 wipers/flatpack; 12 flatpacks/case

* TX1052 not Vectra® processed

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Vectra® AlphaSorb® 10 Wipers

TX1050 TX1057

Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	180 g/m ²	1, TM2
Absorbency		
Sorptive capacity	500 mL/m ²	1, TM3
Sorptive rate	0.5 seconds	1, TM3

Contamination Characteristics

Property	Typical Value	Test Method*
Particles and fibers		
Particles 0.5-5.0 µm	4.3 x 10 ⁶ particles/m ²	1, 2, TM15
5.0-100 µm	80,000 particles/m ²	1, 2, TM15
Fibers >100 µm	100 fibers/m ²	1, 2, TM15
Nonvolatile residue		
IPA extractant	0.06 g/m ²	1, TM1
DIW extractant	0.02 g/m ²	1, TM1
Ions		
Sodium	0.35 ppm	1, TM18
Potassium	0.13 ppm	1, TM18
Chloride	0.09 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.
- 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.
- TM – Refers to ITW Texwipe Test Method — available upon request, contact ITW Texwipe Customer Service at www.texwipe.com for a copy.