

AlphaSat® with Vectra® Alpha® 10 Wipers and 100% IPA

Ultralow particle, sealed-border cleanroom wipers pre-wetted with 100% IPA in one convenient reclosable package



Products

TX Number	Description	Packaging
TX8410	9" x 9" Alpha® 10 wipers pre-wetted with 100% IPA	50 wipers/ reclosable bag 12 bags/case

AlphaSat® CleanPaks are available in custom sizes, wipers, packages and solutions

Description

TX8410 AlphaSat® with 100% IPA incorporates ITW Texwipe's ultraclean Vectra® Alpha® 10 sealed-border wipers pre-wetted with 100% semiconductor-grade isopropyl alcohol (IPA) in a red, easy-to-use reclosable slider bag. This product provides pre-wetted wipers on demand, thereby minimizing contamination levels and the need to handle bulk solvents and maintain solvent squirt bottles. Single pre-wetted wipers are conveniently withdrawn from the package through a reclosable opening. TX8410 is packaged in a cleanroom environment and is protected in a sealed outer bag for contamination-free introduction into the cleanroom.

Features

Wipers

- Vectra-processed for the cleanest, most consistent wipers
- 100% synthetic fiber (continuous filament, double-knit polyester)
- Thermally sealed border
- Excellent wiping efficiency and abrasion resistance
- Bag-to-bag traceability
- In-line statistical process control and machine vision inspection ensures consistent quality

Wetting Solution

- 100% semiconductor-grade IPA

Packaging

- Reclosable bag with internal security seal
- Package incorporates convenient reclosable slider for dispensing single, pre-wetted wipers
- Red reclosable bag can be wiped down prior to introduction into the cleanroom
- Gloves won't stick to or be contaminated by adhesive

Benefits

- Minimizes VOCs (volatile organic compounds)
- Reduces alcohol consumption
- Eliminates the need to purchase, inventory, store, transport and dilute bulk IPA
- Eliminates maintenance and storage of squirt bottles
- Packaging is FDA, RoHS and animal origin compliant
- Wipers provide ultralow particle levels and low extractable levels to prevent product and cleanroom contamination
- Superior wiper strength guards against abrasion under rigorous use

Applications

- Cleaning surfaces sensitive to water contamination—e.g., vacuum process chambers of sputtering, etching and chemical vapor deposition (CVD) equipment
- Maintenance of manufacturing equipment for semiconductor, disk media and flat panels
- Cleaning production tools during "wet cleans" or preventative maintenance (PM) activities
- Final wipedown of critical surfaces prior to manufacturing or packaging
- Cleaning activities where there is restricted use of flammable solvents or where stringent VOC regulations are in place



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TX8410

Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	125 g/m ²	1, TM20
Absorbency		
Sorptive capacity	280 mL/m ²	1, TM20
Sorptive rate	0.5 seconds	1, TM20

Contamination Characteristics

Property	Typical Value	Test Method*
Particles and fibers		
Particles 0.5–5.0 µm	9.0 x 10 ⁶ particles/m ²	1, 2
5.0–100 µm	142,000 particles/m ²	1, 2
Fibers >100 µm	200 fibers/m ²	1, 2
Nonvolatile residue		
IPA extractant	0.06 g/m ²	1, TM1
DIW extractant	0.02 g/m ²	1, TM1
Ions		
Sodium	0.25 ppm	1, TM18
Potassium	0.08 ppm	1, TM18
Chloride	0.05 ppm	1, TM18

Note: The data in this table represent typical analyses of these wipers after seven days of saturation. 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.

For more details on the use of pre-wetted wipers, please review “Progress in Pre-wetted Wiper Cleanliness Levels” by Dr. Howard Siegeman.

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