

QuanSat™ with Vectra® QuanTex™

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



Applications

- For use in ISO Class 3–6 Cleanrooms
- Cleaning surfaces sensitive to water contamination
- 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

Description

QuanSat™ with IPA incorporates ITW Texwipe's ultraclean Vectra® QuanTex™ sealed-border wipers pre-wetted with 6% semiconductor-grade isopropyl alcohol (IPA) in an easy-to-use, flatpack package. 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 Single pre-wetted wipers are conveniently withdrawn from the package through a reclosable opening. QuanSat is packaged in a cleanroom environment and double-bagged for contamination-free introduction into the cleanroom.

Features

- 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
- LAL and Agarose overlay test results available for each lot

Benefits

- Minimizes VOC's (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 and product 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

Products

TX Number	Description	Packaging
TX1086	9" x 9" (nominal) 23 cm x 23 cm Vectra® QuanTex™ wipers pre-wetted with 6% IPA	50 wipers/flatpack 12flatpacks/case
Also available as a dry wiper, see TX1080 datasheet.		



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TX1086

Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	109 g/m ²	1, TM20
Absorbency		
Sorptive capacity	352 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	12 x 10 ⁶ particles/m ²	1, 2
5.0–100 µm	144,000 particles /m ²	1, 2
Fibers >100 µm	292 fibers /m ²	1, 2
Nonvolatile residue		
IPA extractant	0.03 g/m ²	1, TM1
DIW extractant	0.02 g/m ²	1, TM1
Ions		
Sodium	0.20 ppm	1, TM18
Potassium	0.20 ppm	1, TM18
Chloride	0.15 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 Siegerman.

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