

Vectra® Alpha® Nu

A superior wiper with excellent absorbency characteristics



Description

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

ITW Texwipe's proprietary Vectra® Process, an automated, hands-free, computer controlled continuous wash and inspection process cleans wipers more efficiently than any cleanroom laundry. ITW Texwipe's sealed-border technology produces four fully sealed borders to prevent the release of fibers and particles. The fabric is a no-run interlock, 100% continuous-filament virgin polyester to lower contamination risk.

Features

- Excellent absorbency characteristics
- No barrier film left behind compared to standard polyester wipers
- Border sealed with smooth surface, no rough areas on edge of fibers that can snag and easily rupture releasing particles
- Very low particle counts and NVRs
- Ideal for all ISO Class 1-4 areas
- Wiping characteristics similar to cellulose based products with cleanliness of polyester
- Particle testing to the 0.2µm level by biaxial LPC
- MADE IN USA

Benefits

- Immediate adsorption of liquids
- No barrier film left behind compared to standard polyester wipers
- Stacked wipers at bulk price point
- Carbon black test results similar to Milliken PAT

Applications

- Engineered for high-sorbency use in the most critical cleanroom environments, such as semiconductor and pharmaceutical manufacturing
- For use in ISO class 1 – 4 environments
- Superior for general wiping in locations where contamination control is of paramount importance
- The best wiper for multiple applications

Products

TX Number	Description	Packaging
TX1069	Vectra® Alpha® Nu 9" x 9" (23 cm x 23 cm), 100% polyester knit, sealed-border wipers	150 wipers/bag, 2 inner bags of 75 wipers; 10 bags/case



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TX1069

Performance Characteristics

Property	Typical Value	Test Method*
Absorbency		
Sorptive capacity	400 mL/m ²	1, TM20
Sorptive rate	0.3 seconds	1, TM20

Contamination Characteristics

Property	Typical Value	Test Method*
LPC		
≥ 0.5 µm	7.9 x 10 ⁶ particles/m ²	1, TM22
Particles and fibers		
Particles 0.5–5.0 µm	1.9 x 10 ⁶ particles/m ²	1, 2, TM22
5.0–100 µm	95,000 particles/m ²	1, 2, TM22
Fibers >100 µm	435 fibers/m ²	1, 2, TM22
Nonvolatile residue		
IPA extractant	0.03 g/m ²	1, TM1
DIW extractant	0.01 g/m ²	1, TM1
Ions		
Sodium	0.3 ppm	1, TM18
Potassium	0.16 ppm	1, TM18
Chloride	0.03 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.

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