

AlphaLite® Wipers

Highest quality and economy in a lightweight synthetic cleanroom wiper



Description

AlphaLite® is a lightweight knitted wiper constructed of 100% continuous-filament polyester. Unlike most lightweight polyester wipers, AlphaLite® is cleanroom laundered to provide an ultraclean, adsorbent wiper that's ideal for critical cleanroom applications. AlphaLite® offers the lowest contamination levels at an economical price.

Features

- 100% synthetic fiber (continuous-filament, knitted polyester)
- Available as stacked or bulk packaged
- Laundered and packaged at ITW Texwipe's Cleanroom Products Manufacturing Center
- Solvent-safe Bag-Within-A-Bag® cleanroom packaging
- Economical packaging options
- Statistical quality control

Benefits

- Ultralow particulate and extractable levels
- Permits rigorous wiping with minimal release of fibers and particles
- Protects cleanroom with minimal fiber and particle release
- Economical
- Lot-to-lot traceability

Applications

- Superior for spill control and general wiping in ISO Class 5–6 environments
- For use in cleanroom environments that demand further reduction of particulate contamination
- Cleaning and burnishing magnetic media surfaces
- Cleaning and wiping sensitive surfaces

Products

TX Number	Description	Packaging
TX1008	AlphaLite® 9" x 9" nominal (23 cm x 23 cm) lightweight, knitted polyester wipers	150 wipers/bag, 2 inner bags of 75 wipers; 10 bags/case
TX1008B	AlphaLite® 9" x 9" nominal (23 cm x 23 cm) lightweight, knitted polyester wipers	150 wipers/bulk packed, 2 inner bags of 75 wipers; 10 bags/case

ITW Texwipe®

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AlphaLite® Wipers

TX1008 TX1008B

Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	121 g/m ²	1, TM2
Absorbency		
Sorptive capacity	350 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	9.4 x 10 ⁶ particles/m ²	1, 2, TM15
5.0-100 µm	120,000 particles/m ²	1, 2, TM15
Fibers: >100 µm	3,100 fibers/m ²	1, 2, TM15
Nonvolatile residue		
IPA extractant	0.05 g/m ²	1, TM1
DIW extractant	0.01 g/m ²	1, TM1
Ions		
Sodium	0.15 ppm	1, TM18
Potassium	0.03 ppm	1, TM18
Chloride	0.04 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.