

TECHNICAL DATA SHEET



Description

Texwipe's AlphaSat[®] line is constructed with ultra-clean Alpha[®] 10 (sealed-border, 100% polyester) wipers that are pre-wetted with semiconductor-grade isopropyl alcohol (IPA) in easy-to-use reclosable slider bags.

Texwipe's Alpha[®] 10 is a wiper with superior strength that holds up well under rigorous use and is very abrasive resistant. With 4 sealed borders and ultralow particle release, this wiper provides maximum performance in critical environments.

The AlphaSat[®] line combines the Alpha 10[®] with semiconductor-grade isopropyl alcohol (IPA). Single pre-wetted wipers are conveniently withdrawn from the package through a reclosable opening. Providing prewetted wipers on demand, AlphaSat[®] minimizes contamination levels and the need to handle bulk solvents and maintain solvent squirt bottles.

TX8410 and TX8415 are packaged in a cleanroom environment and are protected in a sealed outer bag for contamination-free introduction into the cleanroom. Available in 6% and 100% IPA configurations with TX8410, 100% IPA, in a brightly colored red bag for easy identification.

Applications

- ▶ Cleaning surfaces sensitive to water contamination
- ▶ Maintenance of manufacturing equipment for semiconductor, disk media and flat panels
- ▶ Cleaning production tools during "wet cleans"
- ▶ Preventative maintenance (PM) activities
- ▶ Final wipedown of critical surfaces prior to manufacturing or packaging
- ▶ Cleaning activities in Flammable Solvent restricted areas
- ▶ Cleaning activities in stringent VOC regulation areas

Features

- ▶ 100% synthetic fiber (continuous filament, double-knit polyester) with a sealed border
- ▶ Excellent abrasion resistance and wiping efficiency
- ▶ Bag-to-bag traceability
- ▶ In-line statistical process control and inspection ensure consistent quality
- ▶ Available in 6% and 100% IPA (100% IPA in red bag for easy identification)

Benefits

- ▶ Superior wiper strength guards against abrasion under rigorous use
- ▶ Wipers provide ultralow particle and low extractable levels
- ▶ Pre-wetted wipers eliminate the need to purchase and store IPA and squirt bottles
- ▶ Packaging is RoHS and animal origin compliant
- ▶ Minimizes VOCs (volatile organic compounds)

Products

Number	Description	IPA Percentage	Packaging
TX8410	9" x 9" (23 cm x 23 cm) Alpha [®] 10 pre-wetted wipers	100%	50 wipes/reclosable bag; 12 bags/case 12 bags/case = 600 wipers
TX8415	9" x 9" (23 cm x 23 cm) AlphaSat [®] with Vectra [®] Alpha [®] 10 pre-wetted wipers	6%	50 wipers/reclosable bag; 12 bags/case = 600 wipers

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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 second	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, TM22
5.0-100 µm	142,000 particles/m ²	1,2, TM22
Fibers: >100 µm	200 fibers/m ²	1,2, TM22
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 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.

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

Texwipe Regulatory Certificates

Texwipe is the only wiper company to be registered: ISO 9001 • ISO 13485 • ISO 14001 • OHSAS 18001