

# Alpha® 10 Wipers

Premium polyester sealed-border wipers



## Description

Alpha® 10 represents the state of the art in wiper technology and provides maximum performance in critical cleanroom environments.

ITW Texwipe's patented\* sealed-border technology produces four fully sealed borders to prevent the release of fibers and particles. The fabric is a no-run interlock, double-knit from 100% continuous-filament polyester.

Alpha® 10 wipers are also available pre-wetted in CleanPaks®. It combines the Alpha® 10 wipers with semiconductor-grade isopropyl alcohol in convenient, resealable dispenser bags.

## Features

- Excellent balance of wiping efficiency, abrasion resistance and absorbency
- Fully sealed border to prevent fiber release
- 100% continuous-filament, double-knit polyester
- Solvent-safe Bag-Within-A-Bag® cleanroom packaging

## Benefits

- Assures cleanliness with ultralow levels of ions and extractables
- Resists abrasion under rigorous use or when wiping rough surfaces
- Helps prevent product and cleanroom contamination by minimizing fiber and particle release
- Complete traceability of each bag

## Applications

- Designed for use in Class 1–100 cleanroom environments
- Ideal for wiping interior of process tools and other equipment
- Superior for general wiping in environments where contamination control is of paramount importance
- The best wiper for multiple applications

## Products

TX Number		Packaging
<b>TX1012</b>	Alpha® 10 12" x 12" nominal (31 cm x 31 cm) double-knit polyester, sealed-border wipers	100 wipers/bag, double bagged; 10 bags/case

\*Patent #4,888,229



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# Alpha® 10 Wipers

TX1012

## Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	135 g/m <sup>2</sup>	TM2: The Determination of Basis Weight
Absorbency		
Sorptive capacity	320 mL/m <sup>2</sup>	TM3: Absorbency and Rate of Absorbency of Wipers
Sorptive rate	0.5 seconds	TM3: Absorbency and Rate of Absorbency of Wipers

## Contamination Characteristics

Property	Typical Value	Test Method*
Particles and fibers		
Particles 0.5–5.0 µm	5.1 x 10 <sup>6</sup> particles/m <sup>2**</sup>	ASTM E 2090-00: Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy
5.0–100 µm	246,825 particles /m <sup>2**</sup>	ASTM E 2090-00: Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy
Fibers > 100 µm	144 fibers /m <sup>2**</sup>	ASTM E 2090-00: Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy
Nonvolatile residue		
IPA extractant	0.05 g/m <sup>2</sup>	TM1: Matter Extractable from Wipers and Other Materials
DIW extractant	0.02 g/m <sup>2</sup>	TM1: Matter Extractable from Wipers and Other Materials
Ions		
Sodium	0.25 ppm	TM12: The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique
Potassium	0.18 ppm	TM12: The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique
Chloride	0.11 ppm	TM12: The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique

**Note:** The data in this table represent typical analyses of these wipers at the time of publication. These are not specifications. Texwipe continually refines both its processes and its products.

\*Texwipe test procedures available upon request. ASTM procedure available for purchase at [www.astm.org](http://www.astm.org).

\*\*ASTM E 2090 provides a more sensitive test and a more complete measurement of particles and fibers than other standard test methods.

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