

TexWipe® Wipers

Tight-weave construction and bias cut enhance the effectiveness of this 100% cotton wiper



Description

TexWipe® is a strong, double-sided twill-pattern cotton wiper woven in a cross section of 118 x 60 threads per square inch. The product is manufactured with long staple cotton yarn to eliminate free-floating fibers on fabric surface.

Features

- 100% cotton
- Bias cut and tight weave construction (118 x 60 threads per square inch)
- Solvent-safe Bag-Within-A-Bag® cleanroom packaging
- Autoclavable
- High temperature tolerance

Benefits

- Provides durability, high absorbency and heat resistance
- Minimizes cleanroom contamination with low-lint surface and edges protected by our ULP treatment
- Dissipative performance in 40–60% RH environments guards against static discharge
- Excellent resistance to buildup of electrostatic discharge

Applications

- Cleaning, polishing and burnishing of metallic and nonmetallic magnetic media disk surfaces
- Cleaning diffusion furnace equipment in water fabrication and other equipment in areas where high temperatures prevent the use of synthetic wipers
- Removing aqueous and organic solvent spills

Products

TX Number	Description	Packaging
TX304	TexWipe® 4" x 4" (10 cm x 10 cm) cotton wipers	1,200 wipers/bag, 4 inner bags of 300 wipers; 10 bags/case
TX306	TexWipe® 6" x 6" (15 cm x 15 cm) cotton wipers	600 wipers/bag, 2 inner bags of 300 wipers; 10 bags/case
TX309	TexWipe® 9" x 9" (23 cm x 23 cm) cotton wipers	300 wipers/bag, 2 inner bags of 150 wipers; 10 bags/case
TX312	TexWipe® 12" x 12" (31 cm x 31 cm) cotton wipers	150 wipers/bag, double bagged; 10 bags/case
TX318	TexWipe® 17" x 17" (43 cm x 43 cm) cotton wipers	75 wipers/bag, double bagged; 10 bags/case

Also available in tape rolls of various widths and lengths. Contact ITW Texwipe for custom size requirements.



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TexWipe® Wipers

TX304 TX306 TX307 TX309 TX312 TX318

Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	180 g/m ²	TM3: Absorbency and Rate of Absorbency of Wipers
Absorbency		
Sorptive capacity	250 mL/m ²	TM3: Absorbency and Rate of Absorbency of Wipers
Sorptive rate	5 seconds	TM3: Absorbency and Rate of Absorbency of Wipers
Surface resistivity	5.3 x 10 ¹¹ ohms (5.3 x 10 ¹² ohms/sq)	TM14: The Determination of Surface Resistivity of Fabrics and Other Thin, Flat Materials (Adapted from EOS/ESD-S11.11-1993)

Contamination Characteristics

Property	Typical Value	Test Method*
Particles and fibers		
Particles 0.5-5.0 µm	400 x 10 ⁶ particles/m ^{2**}	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	15,000,000 /m ^{2**}	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	80,000 fibers/m ^{2**}	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	0.35 g/m ²	TM1: Matter Extractable from Wipers and Other Materials
DIW extractant	0.20 g/m ²	TM1: Matter Extractable from Wipers and Other Materials
Ions		
Sodium	70 ppm	TM12: The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA)
Potassium	5 ppm	TM12: The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA)
Chloride	8 ppm	TM12: The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA)

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.

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