

Absorbond® Wipers

Hydroentangled polyester wipers for maximum sorptive capacity and optical applications—best wiper for cleaning oil or grease



Description

Absorbond® is the wiper of choice for critical wiping applications where softness, nonabrasiveness and very low extractable levels of nonvolatile residue are essential. Absorbond® is made of 100% hydroentangled polyester. The hydroentanglement process uses jets of water to mechanically entangle the fibers, eliminating the need for chemical binders. Even though Absorbond® contains no surfactants, its sorptive capacity is five times its weight. This is due to the density of Absorbond®'s fiber structure, which allows for the sorption of liquids through capillary action.

Features

- 100% synthetic fiber (hydroentangled polyester)
- No binders
- SolventSafe Bag-Within-A-Bag® cleanroom packaging
- Statistical Quality Control
- Excellent oil and grease absorption

Benefits

- Provides absorbency up to five times its own weight
- Prevents abrasion with its soft, durable surface
- Prevents product and cleanroom contamination with ultralow levels of particles and extractables
- Assures lot-to-lot traceability

Applications

- Cleaning and absorbing oil and grease
- Very low solvent extractable levels make Absorbond® ideal for applications where low nonvolatile residue is essential
- Nonabrasive cleaning and handling of delicate optical-grade components such as coated lenses, fiber optic sensors and mirrors
- Cleaning precision assembly components and sensitive surfaces
- Low-contamination work surface

Products

TX Number	Description	Packaging
TX404	Absorbond® 4" x 4" (10 cm x 10 cm) hydroentangled polyester wipers	1,200 wipers/bag, 4 inner bags of 300 wipers; 10 bags/case
TX409	Absorbond® 9" x 9" (23 cm x 23 cm) hydroentangled polyester wipers	300 wipers/bag, 2 inner bags of 150 wipers; 10 bags/case



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Absorbond® Wipers

TX404 TX409

Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	42 g/m ²	1, TM3
Absorbency		
Sorptive capacity	266 mL/m ² ‡	1, TM3
Sorptive rate	1.4 seconds‡	1, TM3

Contamination Characteristics

Property	Typical Value	Test Method*
Particles and fibers		
Particles 0.5-5.0 µm	92 x 10 ⁶ particles/m ²	1, 2, TM15
5.0-100 µm	2,400,000 particles/m ²	1, 2, TM15
Fibers: >100 µm	243,000 fibers/m ²	1, 2, TM15
Nonvolatile residue		
IPA extractant	0.015 g/m ²	1, TM1
DIW extractant	0.01 g/m ²	1, TM1
Ions		
Sodium	8.3 ppm	1, TM18
Potassium	1.6 ppm	1, TM18
Chloride	9.9 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.

‡Absorbency test performed using IPA.