

Thomas Scientific M1 Polyester Wipers

Suitable for use in ISO 4 and higher cleanrooms, this knitted polyester woven is designed to deliver reliable performance for your cleanroom environment.

- Laser cut edges to secure loose fibers when wiping
- Class 100 cleanroom laundered
- Double-bagged

Product	Model	Class	Edge Finish	Wiper Size	Packaging
21A00P822	M1-3400LSSE	ISO 4	Laser Seal	9" x 9" (23cm x 23cm)	150 ea/bag; 10 bags/case Flat-stacked
21A00P823	M1-3400LSSE	ISO 4	Laser Seal	12" x 12" (30.5cm x 30.5cm)	150 ea/bag; 10 bags/case Flat-stacked
M1-PBSE99	M1-PBSE99	ISO 3	Ultra-Border Seal	9" x 9" (23cm x 23cm)	100 ea/bag; 10 bags/case Flat-stacked

Purity Specifications

Particles & Fibers	Upper Limit* Laser Sealed Edge	Upper Limit* Border Sealed Edge
Particles >0.50um	<11.0	<11.0
Particles >5.0um	<0.8	<0.8
Fibers >100um	<400	<400

* x 10⁶ particles/m²

*Particles: IEST-RP-CC004.3 Section 6.1.4 Fibers:
 IEST-RP-CC004.3 Section 6.2.2 (Orbital Shake Test)



Nonvolatile Residue

Extractant	Upper Limit*	Upper Limit*
	Laser Sealed Edge	Border Sealed Edge
IPA	<0.08 g/m ²	<0.08 g/m ²
DI Water	<0.03 g/m ²	<0.03 g/m ²

*IEST-RP-CC004.3 Section 7.1.2

Physical Properties

Basis Weight	140 g/m ²
Material	100% Polyester
Absorbency	Extrinsic Capacity: >410 ml/m Intrinsic Capacity: >2.6 ml/g Rate: <1 second

Extractables

Ion	Upper Limit* Laser sealed Edge	Upper Limit* Border sealed Edge
Sodium (Na ⁺)	<0.20 ppm	<0.20 ppm
Potassium(K ⁺)	<0.10 ppm	<0.10 ppm
Calcium (Ca ²⁺)	<0.20 ppm	<0.20 ppm
Chloride (Cl ⁻)	<0.10 ppm	<0.10 ppm
Magnesium (Mg ²⁺)	<0.10 ppm	<0.10 ppm

*IEST-RP-CC004.3 Section 7.1.2 (Short Term Extraction)