



Smartet Technology Development Co.,Ltd

SuHua Medical Material Manufacture Co.,Ltd

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PERFWIPE ESD Black Polyester Cleanroom wiper Specification

Product Description:

PERFWIPE ESD black polyester cleanroom wiper are made with high strength continuous filament polyester yarn in a double knit, no run, and interlock pattern. Knitting,pre-washing, Lases cutting, washing and packaging are all done in house for optimum control & cleanliness.

The cleanroom wiper is ultra clean and highly sorbent making it ideal for wiping critical surfaces.

Cleanroom class 100 Laundered & Packaged.

Composition&Attributes:

100% High Strength black Polyester fiber (continuous filament double knit)

Ultra Low particle and fiber generation

Laser Border Sealed Edges for maximum fiber & particle retention

Free of Silicon, Amides, and DOP contamination

Solvent safe double bag cleanroom packaging

Resists abrasion when used with rough surfaces

Works well with IPA and other cleaning solvents

Applications:

Ideal for wiping critical surfaces to achieve ultra cleanliness

Excellent choice for wiping process tool internals and chambers

Works well for particle removal & resistance with solvents

Soft texture for scratch sensitive surfaces but very durable

Autoclavable for Aseptic environments

Compatible with ISO Class 4-5(Class 10-100) environments

Physical Properties:

Basis Weight: 140g/m²

Material:

- 100% Black Polyester Fiber
- Continous Filament, Double Knit

Absorbency:

- Sorptive Capacity: 460 mL/m²
- Intrinsic Capacity: >2.2 ml/g
- Sorptive Rate: < 1 seconds

Test Method: IEST-RP-CC004.3 Section 8.1



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Purity Specifications:

Particles & Fibers:

- Particles:

- (>0.5micron) = 3.5 x 10(6) particles/m2
- (> 5 micron) = 0.2x10(6)particles/m2

- Fibers:

- (>100 micron)=300/m2

Test Method:Orbital Shake Test:- IEST-RP-CC004.3-6.1.4

Nonvolatile Residue:

- IPA Extractant: 1.5 ug/cm2
- DIW Extractant: 0.90ug/cm2

Test Method:Short Term Extraction:- IEST-RP-CC004.3-7.1.2

Extractable Ions:

- Sodium (Na+): 0.15ug/g
- Potassium (K+): 0.07ug/g
- Chloride (Cl+): 0.06ug/g
- Calcium (Ca+): 0.13ug/g
- Magnesium (Mg²⁺):0.08ug/g

Test Method:Standard Extractable Method:- IEST-RP-CC004.3-7.2.2.1B

ESD Specifications

ESD Specifications	Upper Limits	Test Method
Surface Resistivity (50% RH/48 hours)	8.00E+11	EOS/ESD S11.11
Decay Time	20 seconds	FTM STD 101-Method 4046
Surface Resistivity (12% RH/48 hours)	2.00E+12	EOS/ESD S11.11
Decay Time	50 seconds	FTM STD 101-Method 4046

Order Informations:

Code	Size	Packaging
SSESDW-P-LE-B140D-44	4"x4"	400pcs/bag 10bag/case
SSESDW-P-LE-B140D-66	6"x6"	100pcs/bag 20bag/case
SSESDW-P-LE-B140D-99	9"x9"	100pcs/bag 10bag/case
SSESDW-P-LE-B140D-1212	12"x12"	100pcs/bag 10bag/case

Note: The data in this table represent typical analyses of these wipers at the time of publication.
These are not specifications.

Smartet continually refines both its processes and its products.

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