



## TekniClean Sealed Border Microfiber Cleanroom Wiper

### Product Description

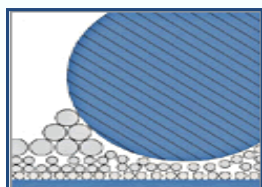
Tekniclean microfiber wipes are designed & constructed with yarn as fine as 0.1 decitex, knitted extremely tight to ensure wipe durability. The structure of the yarn (30% Nylon / 70% Polyester) provides hydrophilic properties of nylon, lipophilic polyester properties and the capillary effect of the dense construction provides a high level of water absorbency and superior wiping efficiency. We use a high temperature high pressure process to split the yarn and release the 8-16 wedges of polyester yarn and shrink the cloth up to 40% to increase density. This process provides an extremely soft fabric that will leave no scratches on wiped objects. The wedge like yarn structure effectively traps micro-contamination (particles & bacteria) without re-contaminating the surface. All Tekniclean wipes utilize Statistical Process Control in manufacturing and are lot traceable from raw material to finished product. Class 10 Laundered & Packaged

### Composition & Attributes

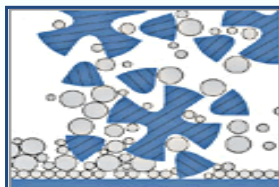
- \* Tightly knit & pre-shrunk 70% Hi Strength Polyester & 30% Nylon fiber
- \* Ultra Low particle and fiber generation
- \* Ultrasonic Sealed Border for maximum fiber & particle retention
- \* Free of Silicon, Amides, and DOP contamination
- \* Solvent safe double bag cleanroom packaging
- \* Resists abrasion when used with rough surfaces
- \* Works well with IPA and other cleaning solvents

### Applications

- \* Ideal for removing water & oil based contamination
- \* Works well for process cleaning; ultra pure substrate / best performance
- \* Silky texture will not scratch sensitive surfaces when force is applied
- \* Works well for difficult particle removal; excellent abrasion resistance
- \* Best abrasion resistance; excellent choice for wiping process tool chambers
- \* Recommended for Optical, LCD, & Hard Disk Drive cleaning
- \* Compatible with ISO Class 3-5 (Class 1-100) environments



Traditional wiping



Microfiber wiping



### Physical Properties

- \* Basis Weight 190-220 g/m<sup>2</sup>
- \* Material 30% Nylon / 70% Polyester  
0.1 decitex; 16 wedge
- \* Absorbency Extrinsic Capacity: >280ml/m<sup>2</sup>  
Intrinsic Capacity: >2.4 ml/g  
Sorptive Rate: < 2 seconds
- \* Test Method IEST 4.3 Section 8.1



Magnified Wipe Surface



Magnified Split Yarn

### Purity Specifications

#### \* Particles & Fibers

		Maximum	Typical
particles/m <sup>2</sup>	Particles (>0.5micron)	<8 x 10 <sup>(6)</sup>	6.5 x 10 <sup>(6)</sup>
particles/m <sup>2</sup>	Particles (>5micron)	<1 x 10 <sup>(6)</sup>	0.6 x 10 <sup>(6)</sup>
fiber/m <sup>2</sup>	Fibers (>100 micron)	<400	325

#### \* Nonvolatile Residue

g/m <sup>2</sup> / ug/cm <sup>2</sup>	IPA Extractant	<0.1	0.07
g/m <sup>2</sup> / ug/cm <sup>2</sup>	DIW Extractant	<0.05	0.015

#### \* Extractable Ions

ppm / ug/g	Sodium (Na+)	<0.20	0.13
	Potassium (K+)	<0.10	0.03
	Magnesium (Mg <sup>2+</sup> )	<0.10	0.01
	Chloride (Cl+)	<0.20	0.13
	Calcium (Ca+)	<0.20	0.14

### Test Method

Orbital Shake Test	IEST 4.3-6.1.4
Short Term Extraction	IEST 4.3-6.2.2
Standard Extractable Method	IEST 4.3-7.1.2
	IEST 4.3-7.2.2.1B

### Ordering Information

**Size**  
9" X 9" (22.9cm x 22.9cm)

### Product

TC3MFB1-99

### Packaging

100 Ea/Bag (2 inner bags of 50) 10 Bag/Case