



## TekniClean Border Sealed Polyester ESD Cleanroom Wiper

### Product Description

Tekniclean polyester knit wipes are made with a hi strength continuous filament polyester yarn in a double knit, no run interlock pattern. These cleanroom wipers are packed in a static shielding bag and eliminate "hot plastic" packaging and processed to minimize the resulting tribocharge on insulative polyester knit wipes in ESD sensitive environments. The bag has an easy to use ziplock seal to maintain cleanliness. This family of wipers is available dry, or pre-saturated with ultrapure IPA & 18Mohm De-Ionized Water. A proprietary process using pressure & heat is used to create a 5mm border seal for fiber & particle retention. Knitting, pre-washing, cutting, washing and packaging are all done in house for optimum control & cleanliness. The wipe is ultra clean and highly sorbent making it ideal for wiping critical surfaces in sensitive electronics, defense & aerospace manufacturing areas. 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

- \* 100% Hi Strength Polyester fiber (continuous filament, double knit)
- \* Ultra Low particle and fiber generation
- \* Ultrasonic Sealed Borders for maximum fiber & particle retention
- \* Free of Silicon, Amides, and DOP contamination
- \* Solvent safe ESD static shield 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 chambers
- \* Works well for difficult particle removal; excellent abrasion resistance
- \* Lowest fiber & particle level available; cleanest wiper
- \* Soft knit texture for scratch sensitive surfaces
- \* Available pre-wetted with ultra pure IPA / DIW for best performance
- \* Compatible with ISO Class 3-5 (Class 1-100) environments

### Purity Specifications

#### \* Particles & Fibers

		Maximum	Typical
particles/m <sup>2</sup>	Particles (>0.5 micron)	<4.5 x 10 <sup>(6)</sup>	3.7 x 10 <sup>(6)</sup>
particles/m <sup>2</sup>	Particles (> 5 micron)	<0.3 x 10 <sup>(6)</sup>	0.16 x 10 <sup>(6)</sup>
fiber/m <sup>2</sup>	Fibers (>100 micron)	<300	212

#### \* Nonvolatile Residue

		Maximum	Typical
g/m <sup>2</sup> / ug/cm <sup>2</sup>	IPA Extractant	<0.04 / 4	0.025 / 2.5
g/m <sup>2</sup> / ug/cm <sup>2</sup>	DIW Extractant	<0.01 / 1	.007 / 0.7

#### \* Extractable Ions

		Maximum	Typical
ppm / ug/g	Sodium (Na+)	<0.2	0.14
ppm / ug/g	Potassium (K+)	<0.1	0.04
ppm / ug/g	Magnesium (Mg <sup>2+</sup> )	<0.1	0.07
ppm / ug/g	Chloride (Cl+)	<0.1	0.04
ppm / ug/g	Calcium (Ca+)	<0.2	0.16

### ESD Specifications

	Upper Limits
*Surface Resistivity (50% RH/48 hours)	8.00E+11
Decay Time	20 seconds
*Surface Resistivity (12% RH/48 hours)	2.00E+12
Decay Time	50 seconds

### Product

TC3PB1S-99 (Dry)  
 TS3PBI70-99 (70% IPA/30% DIW)  
 TS3PBE100S-99 (ESD Cleaner)  
 TC3PB1S-12 (Dry)  
 TS3PBI70-12 (70% IPA/30% DIW)

### Size

9" X 9" (22.9cm x 22.9cm)  
 9" X 9" (22.9cm x 22.9cm)  
 9" X 9" (22.9cm x 22.9cm)  
 12" x 12" (30cm x 30cm)  
 12" x 12" (30cm x 30cm)

### Ordering Information

### Packaging

100 Ea/Bag, 10 Bag/Case  
 100 Ea/Bag, 5 Bag/Case  
 100 Ea/Bag, 5 Bag/Case  
 100 Ea/Bag, 10 Bag/Case  
 100 Ea/Bag, 5 Bag/Case



### Physical Properties

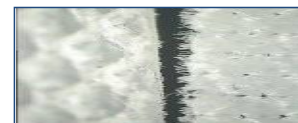
- \* Basis Weight 140g/m<sup>2</sup>; Standard Weight
- \* Material 100% Pure Polyester Continuous Filament, Double Knit, No Run
- \* Absorbency Extrinsive Capacity: >410ml/m<sup>2</sup>  
Intrinsic Capacity: >2.6 ml/g  
Sorpitive Rate: <1 second
- \* Test Method IEST-RP-CC004.3 Section 8.1

### Test Method

Orbital Shake Test IEST-4.3-6.1.4

Short Term Extraction IEST-4.3-7.1.2

Standard Extractable Method IEST-4.3-7.2.2.1B



TC3PB1S vs. TX1010

### Test Method

EOS/ESD S11.11  
 FTM STD 101-Method 4046  
 EOS/ESD S11.11  
 FTM STD 101-Method 4046