



Innovative
Contamination
Solutions

TekniClean Sealed Edge Woven Microfiber Wiper

Product Description

Tekniclean microfiber wipes are designed & constructed with yarn as fine as 0.1 decitex, woven extremely tight to ensure wipe durability. The structure of the yarn (20% Nylon / 80% Polyester) provides hydrophilic properties of nylon, loiphilic 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 woven 80% Hi Strength Polyester & 20% Nylon fiber
- * Ultrasonic Sealed Edges or Borders for best fiber & particle retention
- * Ultra Low particle and fiber generation
- * Free of Silicon, Amides, and DOP contamination
- * Solvent safe double bag cleanroom packaging
- * Super soft for scratch sensitive surfaces
- * Resists abrasion when used with rough surfaces
- * Works well with IPA and other cleaning solvents



Applications

- * Ideal for removing oil based contamination, 100% removal
- * 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 process tool chambers
- * Recommended for Optical, LCD, & Hard Disk Drive cleaning
- * Compatible with ISO Class 4-5 (Class 10-100) environments

Purity Specifications

* Particles & Fibers

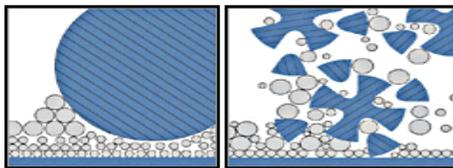
		Maximum	Typical
particles/m ²	Particles (>0.5 micron)	<7 x 10 ⁽⁶⁾	5.1 x 10 ⁽⁶⁾
particles/m ²	Particles (> 5 micron)	<0.7 x 10 ⁽⁶⁾	0.5 x 10 ⁽⁶⁾
fiber/m ²	Fibers (>100 micron)	<300	230

* Nonvolatile Residue

g/m ² / ug/cm ²	Extractant	Maximum	Typical
	IPA Extractant	<0.07 / 1	0.035 / 3.5
	Acetone Extractant	<0.07 / 1	0.035 / 3.5
g/m ² / ug/cm ²	DIW Extractant	<0.015 / 1	0.010 / 0.10

* Extractable Ions

ppm / ug/g	Ion	Maximum	Typical
	Sodium (Na+)	<.02	0.006
	Potassium (K+)	<.03	0.012
	Magnesium (Mg ²⁺)	<.02	0.012
	Chloride (Cl+)	<.02	0.01
	Calcium (Ca+)	<.02	0.015



Traditional wiping

Microfiber wiping

Physical Properties

- * Basis Weight 170-175 g/m²
- * Material 20% Nylon / 80% Polyester
0.1 decitex; 16 wedge
- * Absorbency Extrinsic Capacity: >300ml/m²
Intrinsic Capacity: >2.27 ml/g
Sorpive Rate: < 5 seconds
- * Test Method IEST 4.3 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



Magnified Original Yarn



Magnified Split Yarn

Ordering Information

Product

TC2MFW-99
TC2MFW-12
TC3MFW-99
TC3MFW-12

Size

9" X 9" (23 x 23 CM), Sealed Edge
12" X 12" (30 X 30 CM), Sealed Edge
9" X 9" (23 x 23 CM), Sealed Border
12" X 12" (30 X 30 CM), Sealed Border

Packaging

100 Ea/Bag 10 Bag/Case
100 Ea/Bag 10 Bag/Case
25 Ea/Bag, 6Bags/Pack 8 Bags/Case
25 Ea/Bag, 6Bags/Pack 8 Bags/Case