



Innovative
Contamination
Solutions

the Teknipure wiper

Product Description

Tekniclean microfiber wipes are constructed with mixed weave yarn, as fine as 0.1 decitex, knitted extremely tight to ensure 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 holding capacity and superior wiping efficiency. We use a high temperature, high pressure process to split the yarn and release the 12-16 yarn wedges shrink the cloth up to 40% to increase density. This process provides an extremely soft yet textured fabric that will not scratch wipes surfaces. The wedge like yarn structure effectively traps and holds micro-contamination (particles & bacteria) unlike any other wiper. Sealed borders prevent fiber & particle release. Packed in static shield bags with ziplok seal to eliminate "hot" packaging & resulting tribocharge while maintaining traceability & product integrity in ESD sensitive environments. All Tekniclean wipes utilize Statistical Process Control 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
- * Laser Sealed Edges provides best particle/fiber retention
- * Best "Pick up" for most critical wiping applications
- * Free of Silicon, Amides, and DOP contamination
- * 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 4-5 (Class 10-100) environments

Purity Specifications

* Particles & Fibers

| | | | <u>Maximum</u> | <u>Typical</u> |
|--------------------------|-------------------------|--|-----------------------|------------------------|
| particles/m ² | Particles (>0.5 micron) | | 6.5 x 10 ⁶ | 5.5 x 10 ⁶ |
| particles/m ² | Particles (>5 micron) | | .2 x 10 ⁶ | 0.08 x 10 ⁶ |
| particles/wiper | Particles (>0.3 micron) | | 60 | 45 |
| fiber/m ² | Fibers (>100 micron) | | 350 | 255 |

* Nonvolatile Residue

| | | | |
|---------------------------------------|----------------|------|------|
| g/m ² / ug/cm ² | IPA Extractant | 0.1 | 0.08 |
| g/m ² / ug/cm ² | DIW Extractant | 0.05 | 0.03 |

* Extractable Ions

| | | | |
|------------|-------------------------------|-----|------|
| ppm / ug/g | Sodium (Na ⁺) | 0.2 | 0.16 |
| ppm / ug/g | Potassium (K ⁺) | 0.1 | 0.08 |
| ppm / ug/g | Magnesium (Mg ²⁺) | 0.1 | 0.08 |
| ppm / ug/g | Chloride (Cl ⁻) | 0.2 | 0.11 |
| ppm / ug/g | Calcium (Ca ²⁺) | 0.2 | 0.18 |

Ordering Information

Product

TC3MBWS-99 (Dry)
TS3MBWI70S-99 (70%IPA/30%DIW)

Size

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

Packaging

100 Ea/Bag (2 inner bags of 50) 15 Bag/Case
100 Ea/Bag (2 inner bags of 50) 5 Bag/Case



Mixed Weave Split Microfiber

Physical Properties

- * Basis Weight 110g/m²
- * Material 30% Nylon / 70% Polyester
0.1 decitex; 16 wedge
- * Absorbency Extrinsic Capacity: >280 ml/m²
Intrinsic Capacity: >2.4 ml/g
Sorptive Rate: < 1 seconds
- * Test Method IEST 4.3 Section 8.1

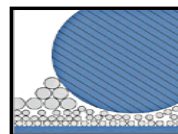
Test Method

Orbital Shake Test IEST 4.3-6.1.4

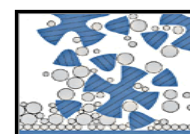
Short Term Extraction IEST 4.3-6.2.2

Short Term Extraction IEST 4.3-7.1.2

Standard Extractable Method IEST 4.3-7.2.2.1B



Traditional wiping



Microfiber wiping