

Microdenier Cleanroom Wipers

Microdenier with a Sealed Edge

Teknipure Microdenier wipers are made in cleanroom conditions from **100% polyester knit material** and have a **sealed edge** that significantly reduces the particles and fibers released from the wiper edges. Microdenier is a soft material and has an increased capability to capture and retain smaller particles and fibers.

Available dry (Teknipure Microdenier) and pre-saturated with with 6%, 10% and 70% IPA, and in ESD Static Shield Bag (Teknipure Microdenier Presat).



Applications:

- Wiping and cleaning surfaces, equipment and parts in high-grade cleanroom environments
- Cleaning sensitive surfaces, removing fingerprints and oils
- Applying and removing solvents and solutions including IPA, disinfectants, lubricants, adhesives, removing residues

Features and Benefits:

- The wiper structure allows for an increased level of capturing smaller particles and fibers
- Soft material for cleaning sensitive surfaces, easy removal of oil spots
- Provide low levels of ions, NVRs (non-volatile residues), particles and fibers for use in most critical cleanroom environments
- 100% polyester material has an excellent chemical compatibility with a variety of cleaning & disinfecting solutions
- Pre-saturated wipers provide consistent wetness level for optimized and consistent cleaning efficiency
- The IPA used for pre-saturation, is 0.2 µm filtered for additional contamination control
- The ESD-Static Shield bag protects the wipers from the dissipative charge in critical environments and reduces the ESD risks when handling microelectronic parts and devices

Industries:

- Medical Device / Optics
- Semiconductor / Microelectronics
- Pharmaceutical / Biologics
- Laboratories / Academia
- Aerospace / Defense
- USP <797> / USP <800>

Cleanroom Environment:

- ISO Class 3 – 7 (Grades B-D)
- Class <1 – 10,000

Shelf Life:

- Dry Non-Sterile – 5 years from date of manufacture
- All Presaturated and Sterile – 3 years from date of manufacture

Microdenier

Cleanroom Wipers

Microdenier with a Sealed Edge

Microdenier		
Part Number	Description	Packaging
TC2PMDU1-99	Polyester Knit Microdenier Wiper with Sealed Edge, 9" x 9" (23 cm x 23 cm)	100 wipers/bag, 10 bags/case, Total 1000 wipers/case
TC2PMDU1-12	Polyester Knit Microdenier Wiper with Sealed Edge, 12" x 12" (30 cm x 30 cm)	100 wipers/bag, 10 bags/case, Total 1000 wipers/case
TC2PMDU1-99S	Sterile Polyester Knit Microdenier Wiper with Sealed Edge, 9" x 9" (23 cm x 23 cm)	25 wipers/bag, 20 bags per case, Total 500 wipers/cs
TC2PMDU1-99S/B	Sterile Polyester Knit Microdenier Wiper with Sealed Edge, 9" x 9" (23 cm x 23 cm)	75 wipers/bag, 16 bags per case, Total 1200 wipers/cs
TC2PMDU1-12S	Sterile Polyester Knit Microdenier Wiper with Sealed Edge, 12" x 12" (30 cm x 30 cm)	25 wipers/bag, 20 bags per case, Total 500 wipers/cs
TC2PMDU1-12S/B	Sterile Polyester Knit Microdenier Wiper with Sealed Edge, 12" x 12" (30 cm x 30 cm)	75 wipers/bag, 16 bags per case, Total 1200 wipers/cs
TC2PMDU1-12	Polyester Knit Microdenier Wiper with Sealed Edge, 12"x12" (30 cm x 30 cm)	100 wipers/bag, 10 bags/case, Total 1000 wipers/case

Microdenier Presat		
Part Number	Description	Packaging
TS2PMDUI06Z-99	Polyester Knit Microdenier Wiper with Sealed Edge Presaturated with 6% IPA/94% DIW, 9" x 9" (23 cm x 23 cm)	50 wipers/resealable slider bag, 15 bags/cs, Total 750 wipers/case
TS2PMDUI10Z-99	Polyester Knit Microdenier Wiper with Sealed Edge Presaturated with 10% IPA/90% DIW, 9" x 9" (23 cm x 23 cm)	50 wipers/resealable slider bag, 15 bags/cs, Total 750 wipers/case
TS2PMDUI70Z-99	Polyester Knit Microdenier Wiper with Sealed Edge Presaturated with 70% IPA/30% DIW, 9" x 9" (23 cm x 23 cm) in ESD Static Shield Resealable Bag	50 wipers/resealable bag, 15 bags/case, Total 750 wipers/case

Performance Characteristics	Typical Value	Test Method
Particles and Fibers		
LPC >0.50 µm	8 x 10 ⁶ particles/m ²	IEST-RP-CC004.4, Section 7.2.1
Fibers >100 µm	340 fibers/m ²	IEST-RP-CC004.4, Section 7.2.2
Nonvolatile residue		
IPA Extractant	0.087 g/m ²	IEST-RP-CC004.4
DI Water Extractant	0.009 g/m ²	
Extractable Ions		
Sodium (Na ⁺)	0.052 ppm	IEST-RP-CC004.4, Section 8.2.2
Potassium(K ⁺)	0.018 ppm	
Chloride (Cl ⁻)	0.028 ppm	
Physical Characteristics		
Material	100% Microdenier Polyester	ASTM D3776
Basis Weight	158 g/m ²	
Absorbency		
Sorptive Capacity	360 ml/m ²	IEST-RP-CC004.4, Section 9.1
Sorptive Rate	0.4 second	