

# 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
- Sterile products are validated to a sterility assurance level of 10<sup>-6</sup> according to AAMI guidelines

AVAILABLE  
IN ESD  
BAGS



### 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

### Storage Conditions:

- Store at ambient conditions (59°F (15°C) - 86°F (30°C))

# 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	<i>Sterile</i> Polyester Knit Microdenier Wiper with Sealed Edge, 9" x 9" (23 cm x 23 cm)	100/Pack (4 bags of 25), 5 Packs/case, Total 500 wipers/cs
TC2PMDU1-12S	<i>Sterile</i> Polyester Knit Microdenier Wiper with Sealed Edge, 12" x 12" (30 cm x 30 cm)	100/Pack (4 bags of 25), 5 Packs/case, Total 500 wipers/cs

Microdenier Presat		
Part Number	Description	Packaging
TS2PMDU106Z-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
TS2PMDU110Z-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

\*Shelf life 13 months

Microdenier Presat ESD		
Part Number	Description	Packaging
TS2PMDU106Z-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
<b>Particles and Fibers</b>		
LPC >0.50 µm	8 x 10 <sup>6</sup> particles/m <sup>2</sup>	IEST-RP-CC004.4, Section 7.2.1
Fibers >100 µm	340 fibers/m <sup>2</sup>	IEST-RP-CC004.4, Section 7.2.2
<b>Nonvolatile residue</b>		
IPA Extractant	0.087 g/m <sup>2</sup>	IEST-RP-CC004.4
DI Water Extractant	0.009 g/m <sup>2</sup>	
<b>Extractable Ions</b>		
Sodium (Na <sup>+</sup> )	0.052 ppm	IEST-RP-CC004.4, Section 8.2.2
Potassium(K <sup>+</sup> )	0.018 ppm	
Chloride (Cl <sup>-</sup> )	0.028 ppm	
<b>Physical Characteristics</b>		
Material	100% Microdenier Polyester	ASTM D3776
Basis Weight	158 g/m <sup>2</sup>	
<b>Absorbency</b>		
Sorptive Capacity	360 ml/m <sup>2</sup>	IEST-RP-CC004.4, Section 9.1
Sorptive Rate	0.4 second	