



## Description

MiraWIPE<sup>®</sup> is a woven cleanroom microfiber wiper that enhances absorbency and foreign particle contamination removal versus traditional polyester wipers. The high density, super smooth woven polyester/nylon fabric minimizes the shedding of particulates from the face of the wiper when used in heavy-duty equipment cleaning tasks. The non-stretch fabric and ultrasonic sealed edge will not split during use eliminating a major source of particle generation. MiraWIPE's non-symmetrical microfiber structure enables stubbornly adhered contamination to be dislodged, entrapped and removed product contact surfaces and components.

MiraWIPE is laundered and packed in to ensure compatibility with ISO Class 3 cleanrooms. MiraWIPE is lot tested and certified by LPC, Helmke drum and optical test methods to ensure control of submicron to 500 micron particles. All wipers are double bagged to aid cleanroom entry protocols.

Presaturated configurations are also available. See MiraSAT<sup>™</sup>

## Features & Benefits

- **Unsurpassed Cleaning Efficiency.** Star shaped microfiber leads to enhanced removal of particles, metals, and organics from cleanrooms.
- **Delivers Cleaner Tools.** Engineered fabric resists abrasion and snagging to prevent foreign particle contamination.
- **ISO Class 3-5 Compatible.** Unique edge seal process maintains sealed edge integrity even during heavy duty wiping.
- **VOC Free Cleaning.** Interstitial fabric design allows DI water to replace solvents such as IPA in equipment cleaning applications.
- **Production Proven.** deal for cleaning wafer handling systems to eliminate linear scratch defect events.

## Applications

- MiraWIPE is production-proven in sub 10nm wafer fabs to reduce post PM particle adders in Vacuum Chambers and wafer transfer systems.
- MiraWIPE is available sterile for cleaning aseptic processing areas in Pharmaceutical cleanrooms.
- MiraWIPE durable fabric significantly reduces 30-200 micron fiber release making it ideal for cleaning medical worksurfaces and components.



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# MiraWIPE®

## Cleanroom Microfiber Wiper

### Technical Data \*

Test Method	HT5790S
<b>LPC at ≥ 0.5 µm</b>	
(particles/m <sup>2</sup> )	< 15 x 10 <sup>6</sup>
<b>Organic with FTIR (ng/g)</b>	
Silicone	< 13
Amide & DOP	ND**
<b>NVR (mg/g)</b>	
In DI Water	≤ 0.20
In IPA	≤ 0.82
<b>APC (particle/piece)</b>	
Total particles 0.3 - 5.0 µm	< 700
Total particles 0.5 - 5.0 µm	< 350
<b>Optical Particle &amp; Fiber</b>	
Particle size > 125 µm	N/A
Fibers size > 125 µm	N/A
<b>Absorptive Capacity</b>	
Basis Weight	160g/m <sup>2</sup> +/- 10%
Extrinsic Sorbency	286ml/m <sup>2</sup>
Intrinsic Sorbency	2.22ml/g
Absorptive Rate	< 1 second

Cleanliness	
HT5790S/ HT5711S	
<b>Extractibles via Ion Chromatography</b>	
<b>Anions (ppm)</b>	
Bromide	< 0.01
Chloride	-
Fluoride	< 0.5
Nitrate	< 1
Nitrite	< 1
Phosphate	< 1
Sulfate	< 1
<b>Cations (ppm)</b>	
Ammonium	-
Calcium	< 0.3
Lithium	-
Magnesium	< 0.05
Potassium	< 0.2
Sodium	< 20
Titanium	< 0.01

\*\* ND = None detected; levels are below detection limit of test equipment.  
 \* Note: The data in these tables represent typical analyses of these wipers. These are not specifications.  
 N/A = Not Applicable



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## MiraWIPE<sup>®</sup> Ordering Information

Part No.	Description	Size	Units/Case
HT5711-25	Microfiber Wipers, ISO Class 5 Compatible, Sealed Edge, Pack of 25 Wipers per Bag - 50 Bags per Case	11" x 11"	1250
HT5711S-25	Microfiber Wipers, ISO Class 3 Compatible, Wide Sealed Edge, Processed, Pack of 25 Wipers per Bag - 50 Bags per Case	11" x 11"	1250
HT5790	Microfiber Wipers, ISO Class 5 Compatible, Sealed Edge, Processed, Pack of 150 Wipers per Bag - 8 Bags per Case	9" x 9"	1200
HT5790S	Microfiber Wipers, ISO Class 3 Compatible, Wide Sealed Edge, Processed, Pack of 150 Wipers per Bag - 8 Bags per Case	9" x 9"	1200
HT5790S-25	Microfiber Wipers, ISO Class 3 Compatible, Wide Sealed Edge, Processed, Pack of 25 Wipers per Bag - 40 Bags per Case	9" x 9"	1000
HT5790SM	Microfiber Wipers, ISO Class 5 Compatible, Wide Sealed Edge, Processed, Pack of 150 Wipers per Bag - 8 Bags per Case	9" x 9"	1200
HT5740S-40	Microfiber Wipers, ISO Class 3 Compatible, Wide Sealed Edge, Processed, Pack of 40 Wipers per Bag - 30 Bags per Case	4" x 4"	1200

## MiraWIPE<sup>®</sup> Sterile Configurations

Part No.	Description	Size	Units/Case
HT5711S-10ST	Sterile Microfiber Wipers, ISO Class 3 Compatible, Wide Sealed Edge, Processed, Pack of 100 Wipers per Bag - 5 Bags per Case	11" x 11"	500
HT5711S-25ST	Sterile Microfiber Wipers, ISO Class 3 Compatible, Wide Sealed Edge, Processed, Pack of 25 Wipers per Bag - 40 Bags per Case	11" x 11"	1000
HT5790S-10ST	Sterile Microfiber Wipers, ISO Class 3 Compatible, Wide Sealed Edge, Processed, Pack of 100 Wipers per Bag - 5 Bags per Case	9" x 9"	500



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