

UltraSOLV® Wipers and Sponges





cleaning critical surfaces



Description

UltraSOLV® is a highly absorbent, Class 10 Wiper constructed from a naturally reticulated, hydrophilic, polyurethane foam. Using Foamtec's patented cleaning process and foam technology, UltraSOLV® Wipers are ideal for cleaning critical tools and assemblies. Available as a sponge for use with UltraSOLV® ScrubPADs on wet cleans.

Advantages

-  The unique abrasion resistance and conformable characteristics of UltraSOLV® allow it to clean rough, coarse and bead blasted surfaces that will snag traditional polyester wipers.
-  Low levels of particle generation, ionics, organics, lot-to-lot consistency and fiber free construction combined with unsurpassed contamination removal properties make it the ideal tool for the cleaning of critical process equipment.
-  Sponge-like absorbency and rinsing characteristics offer the opportunity to significantly reduce wiper usage and hazardous waste generation in equipment PM's.
-  Excellent static dissipative and tribocharging properties allow for safe cleaning of static sensitive assemblies, such as wafer transfer chambers in vacuum tools.

Applications

Performing wet cleans and PMs on vacuum based process equipment in the Semiconductor, Disk Drive and Flat Panel Display industries.

Part Numbers

<u>Part No.</u>	<u>Product Description</u>	<u>Measurements</u>	<u>Bag Qty</u>	<u>Case Qty</u>
HT4734	Sponge	.37" x 2.62" x 4.37"	1/bag	100 bags/case
HT4754	Sponge	.375" x 3.625" x 5.375"	1/bag	100 bags/case
HT4790	Wiper	.0625" x 9" x 9"	50/bag	30 bags/case
HT4790-5	Wiper	.0625" x 9" x 9"	5/bag	200 bags/case
HT4791	Wiper	.109" x 9" x 9"	50/bag	25 bags/case
HT4794	Wiper	.055" x 9" x 9"	75/bag	30 bags/case
HT4794-25	Wiper	.055" x 9" x 9"	25/bag	50 bags/case

Cleanliness

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	Particles > .5µ / m ²	Particles/Fibers > 25µ / m ²
HT4790	< 3,600,000 / m ²	0
HT4754	< 20,000,000 / m ²	0

TNVRs

DI H ₂ O	< 1 ug/gram	IPA	< .07 g/m ²	Methanol	< .05 g/m ²
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Ions in DI H₂O

Chloride	< 6 ppm	Sulfate	< 1 ppm	Silicon	< 1 ppm
Calcium	< 4 ppm	Sulfite	< 1 ppm	Magnesium	< 1 ppm
Sodium	< 4 ppm	Potassium	< 2 ppm	Nitrate	< 2 ppm

All product is lot tested; lot certificates available upon request



UltraSOLV® Wiper
Out-of-the-Bag



Standard Polyester Wiper
Out-of-the-Bag



UltraSOLV® Wiper
After Use on Bead Blasted
Tool Surface



Standard Polyester Wiper
After Use on Bead Blasted
Tool Surface

ESD Performance

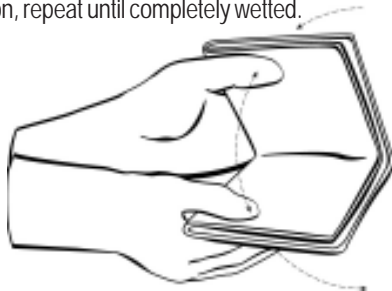
Surface Resistance	1.7 x 10 ⁹	
Volume Resistance	1.1 x 10 ¹⁰	
Electrostatic Decay	± 5 kv to ± 10 volts	< 1.5 seconds
Tribocharge	Less than 8 volts when wiped dry across stainless, aluminum, polypropylene and polyamide surface materials	

All measurements performed at 50% RH

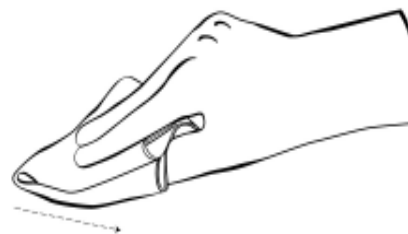
Methods of Use

To maximize usage of Wiper:

- Use with IPA Solvent:** Apply a thin stripe of IPA, using a Needle-Nosed squeeze bottle, to the area just behind the rounded fold. Do not over wet Wiper.
- Use with DI Water:** Fully saturate by applying a quarter-sized amount of DI Water to the center of an unfolded Wiper, wring to ensure proper absorption, repeat until completely wetted.



Step 1: Quarter-fold Wiper after wetting with DI Water. For use with IPA, Quarter-fold prior to wetting.



Step 2: With all four fingers on top and the thumb on the underside of the Wiper, pull it across the surface of the tool using very light pressure.

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