

FirmWIPE® Wipers

cleaning critical surfaces



Description

FirmWIPE® is constructed from an open-cell ester-based polyurethane foam which has undergone a special felting process. FirmWIPE® offers fiber-free wiping in applications where durability and fast wicking, without dripping, are desirable. FirmWIPE® is available in both Class 100 and Class 1000 configurations. Due to its ability to conform to metal mask surfaces, FirmWIPE® enables excess paste to be thoroughly removed while minimizing abrasion to the emulsion. Its unique pore structure makes it ideal for cleaning metal masks used to print LTCC components, capacitors, EL, OLED, and Plasma Display Panels.

Application Advantages

- Open-cell polyurethane structure allows for fiber-free wiping.
- Excellent pick-up of Thick Film inks and solder paste.
- High density construction and sponge-like properties make it ideal for particle sensitive metal mask cleaning operations.
- High incineration rate to yield low ash for precious metal reclamation in Thick Film applications.
- Open-cell, felted foam structure allows for controlled transfer of solvent to optimize cleaning of Thick Film screens.
- Ester-based chemistry and felted construction enable broad solvent compatibility.
- Uniform porosity allows for excellent contamination pickup.

Cleanliness

All of the below are tested via standard IEST methods.

Particle Generation (0.5µ) Wet Test (millions/m ²)	Class 100 <4.5 x 10 ⁶ m ²	Class 1000 < 2.5 x 10 ⁷ m ²
Absorbency (ml/m ²) Isopropyl Alcohol	≤ 3000	
Time to 1/2 Absorption (seconds)	≤ 5	
Extractables (ppm) Deionized Water	≤ 10	≤ 20

Part Numbers

<u>Part Number</u>	<u>Dimensions</u>	<u>Process</u>	<u>Package UOM</u>	<u>Case UOM</u>
HT4331	.375" x 2" x 3"	Class 1000	10 Wipers / Bag	100 Bags / Case
HT4334	.375" x 3" x 4"	Class 100	10 Wipers / Bag	100 Bags / Case
HT4346	.375" x 4" x 6"	Class 100	10 Wipers / Bag	100 Bags / Case
HT4375	.375" x 11" Diameter	Class 100	1 Disk / Bag	20 Bags / Case
HT4376	.375" x 26" Diameter	Class 100	1 Disk / Bag	5 Bags / Case



Wilshire Contamination Control Division

www.foamtecintlwcc.com

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