

UltraSORB® is a highly absorbent wiper that combines excellent ESD characteristics with Class 100 cleanliness. Due to its sponge-like wiping capability, fiber-free construction and ability to resist shedding of particles due to abrasion, it is the perfect choice for Stencil, Thick Film Screen and Medical Device wiping applications. Its unique pore structure allows for controlled solvent transfer to screen and metal masks to aid in the removal of solder paste, conductive adhesives and thick film inks. Ideal for cleaning metal masks used to print LTCC components, capacitors, EL, and Plasma Display Panels. Due to its ability to conform to metal meshed masks, UltraSORB® enables excess paste to be thoroughly removed while minimizing abrasion to the emulsion.

ESD PERFORMANCE	
Surface Resistance	1.7 x 10 <sup>9</sup>
Volume Resistance	1.1 x 10 <sup>10</sup>
Electrostatic Delay	± 5 kv to ± 10 volts < 1.5 seconds
<i>All measurements performed at 50% RH</i>	

CLEANLINESS			
Particle Generation (>0.5µ/m <sup>2</sup> )	< 10,000,000/m <sup>2</sup>		
TNVR's	DI H <sub>2</sub> O <.01 g/m <sup>2</sup>	IPA <.1g/m <sup>2</sup>	Methanol <.05 g/m <sup>2</sup>
Ion in DI H <sub>2</sub> O	Chloride < 10 ppm	Sodium < 1 ppm	Potassium < 1 ppm

## ADVANTAGES

- ⊗ High density, high strength foam make it ideal for particle sensitive cleaning operations, semiconductor, medical device and aseptic environments.
- ⊗ Open-cell, soft foam structure allows for soft wiping on scratch sensitive surfaces.
- ⊗ Excellent abrasion resistance and fluid retention enables fiber-free wiping of Thick Film screens, pad printers and hot molds.
- ⊗ Will not interfere with the curing of elastomers, platinum cured silicones or adhesives.
- ⊗ Uniform application of 70% isopropyl alcohol and disinfectants to properly decontaminate aseptic surfaces.
- ⊗ Excellent abrasion resistance to reduce particle generation in-use.
- ⊗ Static dissipative to minimize the risk of ESD events.
- ⊗ Pyrogen-free for Medical Device wipe-down.
- ⊗ 100% Fiber - Free.
- ⊗ Sponge-like qualities make UltraSORB® ideal for cleaning large volumes of liquids.

PART NO.	DESCRIPTION	SIZE	UNITS/CASE
HT4644	4" x 4" UltraSORB® Wiper, Pack of 50 Wipers per Bag - 50 Bags per Case	.109" x 4" x 4"	2500
HT4666	6" x 6" UltraSORB® Wiper, Pack of 50 Wipers per Bag - 50 Bags per Case	.109" x 6" x 6"	2500
HT4669	6" x 9" UltraSORB® Wiper, Pack of 50 Wipers per Bag - 50 Bags per Case	.109" x 6" x 9"	2500
HT4690	9" x 9" UltraSORB® Wiper, Pack of 50 Wipers per Bag - 30 Bags per Case	.062" x 9" x 9"	1500
HT4699	9" x 9" UltraSORB® Wiper, Pack of 50 Wipers per Bag - 25 Bags per Case	.109" x 9" x 9"	1250

# CHEMICAL RESISTANCE

## Resistance to ASTM D543 (30-day saturation)

CHEMICAL	TEMPERATURE	% OF WEIGHT CHANGE <sup>1</sup>	OBSERVATION
Acetone	23°C	-1.5	unaffected
	50°C	-3.9	softened
Sodium Hydroxide	23°C	-8.0	discolored, brittle
	50°C	-18.1	severe attack
Ammonia	23°C	-0.1	unaffected
	50°C	-0.9	softened
Benzene	23°C	-0.1	unaffected
	50°C	-0.9	softened
Ethyl Alcohol	23°C	-1.1	unaffected
	50°C	-6.6	softened
Ethyl Ether	23°C	-0.3	unaffected
	50°C	-3.8	softened
Ethyl Acetate	23°C	-1.0	unaffected
	50°C	-4.2	softened
Freon	23°C	-0.2	unaffected
	50°C	-2.6	softened
HCl 1%	23°C	-2.3	discolored, brittle
	50°C	-12.4	severe attack
IPA 2-Propanol	23°C	-0.9	unaffected
	50°C	-5.7	unaffected

CHEMICAL	TEMPERATURE	% OF WEIGHT CHANGE <sup>1</sup>	OBSERVATION
Methanol	23°C	-1.7	unaffected
	50°C	-5.1	softened
MEK	23°C	-0.8	unaffected
	50°C	-6.7	softened
Mineral Oil	23°C	+19.0	unaffected
	50°C	+17.8	softened
Oils/Fats	23°C	+9.3	unaffected
	50°C	+8.8	softened
Phos Acid 10%	23°C	-0.1	unaffected
	50°C	-3.8	softened
Sulfuric Acid .02N	23°C	-0.2	unaffected
	50°C	-4.6	softened
Detergent	23°C	+2.7	unaffected
	50°C	+3.3	softened
Toulene	23°C	-4.0	unaffected
	50°C	-6.9	softened
Trichloroethane	23°C	-0.6	unaffected
	50°C	-7.5	softened
Xylene	23°C	-0.1	discolored
	50°C	-5.9	softened

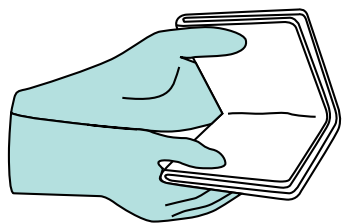
<sup>1</sup> There is always a value for percent change in volume, similar to the value for percent change in weight.

## METHODS OF USE

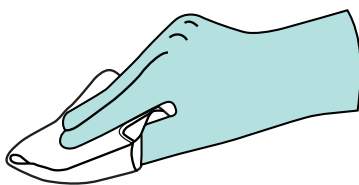
To maximize usage of Wiper:

a) **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.

b) **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.