WIPERS

Micro-denier Clean Wipers Heat Sealed Edge WW-4000 Series



















KM Micro-denier is made of 0.13 denier of continuous filament that ensures unparalleled wiping ability with high absorbency and cleanliness. With ultra-fine structure of its fabric, the fabric of KM Micro-denier provides wide contact to surface so that contaminants on the surface are removed effectively. This fabric also provides more room between fibers, so absorption capacity is increased more than twice than other cleanroom polyester wipers.

- Micro-filament provides better contact to surface
- Laundered and packaged in the class 10 cleanroom
- Sealed edges prevent particle or lint generation
- Ultra-fine fabric structure increase absorbency capacity
- Applications: Class 10 cleanroom for Semiconductor, LCD and HDD manufacturing





WW-4009

Micro-denier Fabric, Magnified



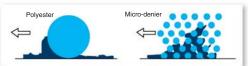


Polyester Fabric, Magnified

How to order

Code	Size	Description	Packing Unit		
WW-4006	6" x 6"				
WW-4009	9" x 9"				
WW-4006HK	6" x 6"	Heat Cooled Edges / Stocking	100 peo / 10 bego		
WW-4009HK		Heat Sealed Edges / Stacking	100 pcs / 10 bags		
WW-4009UM	9" x 9"				
WW-4009TM					

* HK:High-density Knit



Comparison of wiping procedure

Technical Data

Contents		Specifications			
		WW-4009HK	WW-4009UM	WW-4009TM	
Contamination	n Control				
Liquid Particle Count (per m²)	0.4 x10 ⁶	0.4 x10 ⁶	0.6 x10 ⁶	0.6 x10 ⁶	
Air Borne Particle (per ft³)	≤ 40	≤ 40	≤ 50	≤ 75	
Lint (>100µm, EA/Sh)	≤ 20	≤ 20	≤ 30	≤ 45	
DI Water	0.02	0.02	0.02	0.02	
IPA	0.1	0.1	0.1	0.1	
Na	0.2	0.013	0.132	0.049	
K	0.02	1.23	0.016	0.017	
Cl	0.13	0.01	0.065	0.019	
NO ₂	0.01	0.01	0	0	
General Chara	cteristics				
	96±10	210±21	200±20	200±20	
Capacity (ml/m²)	≥ 120	≥ 350	≥ 220	≥ 220	
Capacity (ml/g)	1.25	1.67	1.09	1.09	
(sec/6 ø)	≤ 10	≤ 10	≤ 30	≤ 30	
MD (Machine Direction)	≥ 400	≥ 300	≥ 400	≥ 400	
CD (Cross Direction)	≥ 400	≥ 150	≥ 400	≥ 400	
	200±20	470±20	420±20	420±20	
	Contamination Liquid Particle Count (per m²) Air Borne Particle (per ft³) Lint (>100 μm, EA/Sh) DI Water IPA Na K CI NO2 General Chara Capacity (ml/m²) Capacity (ml/g) (sec/6 g) MD (Machine Direction)	WW-4009 Contamination Control	Notents WW-4009 WW-4009HK Contamination Control Liquid Particle Count (per m²) 0.4 x10° 0.4 x10° Air Borne Particle (per ft²) ≤ 40 ≤ 40 Lint (>100µm, EA/Sh) ≤ 20 ≤ 20 DI Water 0.02 0.02 IPA 0.1 0.1 Na 0.2 0.013 K 0.02 1.23 Cl 0.13 0.01 NO₂ 0.01 0.01 NO₂ 0.01 0.01 General Characteristics Capacity (ml/m²) ≥ 120 ≥ 350 Capacity (ml/m²) ≥ 120 ≥ 350 Capacity (ml/g) 1.25 1.67 (sec/6 ø) ≤ 10 ≤ 10 MD (Machine Direction) ≥ 400 ≥ 300 CD (Cross Direction) ≥ 400 ≥ 150	Note Note	