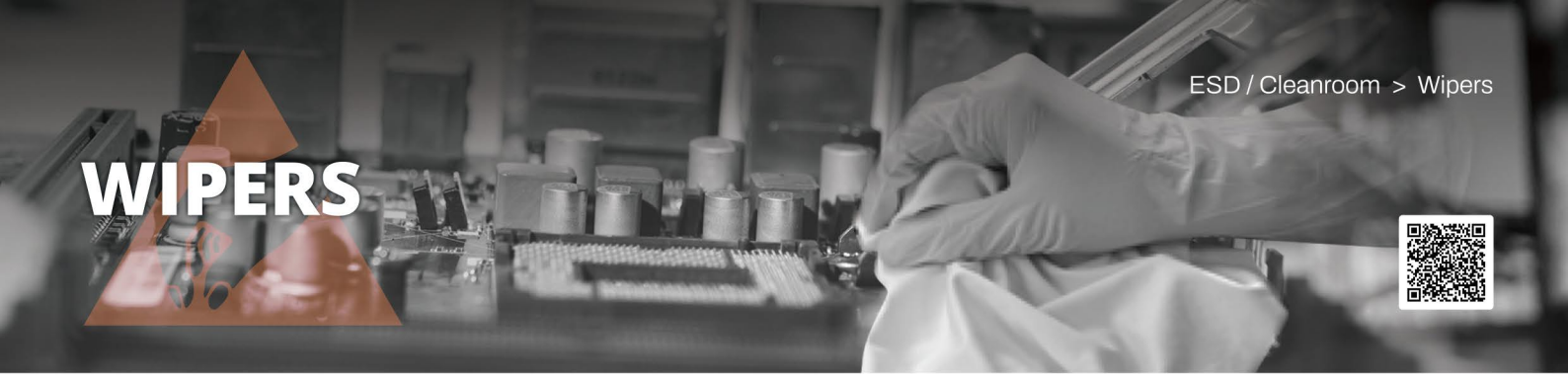


WIPERS

Polyester Knit Wiper

Features

- 100% Polyester continuous yarn
- Cost-effective solution
- Good absorbing capacity
- Low particle generation
- Double packed in Class 100~1000 Cleanroom

Applications

- Semiconductor
- TFT-LCD
- Cell phone module line
- PCB Industry
- Cleaning equipment

Inox-3140
Inox-3070

Polstar-970LD

Polstar-955

Model	Item Code	Size	Model	Item Code	Size	Model	Item Code	Size
Inox-3140	M01W-025	9″×9″	Polstar-970LD	M01W-004	9″×9″	Polstar-955	M01W-015	9″×9″
	M01W-039	6″×6″		M01W-005	6″×6″		M01W-016	6″×6″
	M01W-038	4″×4″		M01W-006	4″×4″		M01W-017	4″×4″
	M01W-037	2″×2″						
Inox-3070	M01W-026	9″×9″						

Micro-Denier Fiber Wiper

Features

- Excellent wiping without scratches
- Extremely low non-volatile residues and ions
- Excellent absorbing capacity
- Suitable for sensitive surface by its soft texture
- Double packed in Class 10~100 Cleanroom

Applications

- Sophisticated products
- Digital camera lens
- Printer drum
- Optical products
- TFT-LCD, PDA

Polstar-935N

Inox-1003

Model	Item Code	Size
Polstar-935N	M02W-001	9″×9″
	M02W-002	6″×6″
	M02W-003	4″×4″
Inox-1003	M02W-004	9″×9″
	M02W-005	6″×6″
	M02W-006	4″×4″

Inox-1006


Polstar-930


Polstar-937

Model	Item Code	Size	Model	Item Code	Size	Model	Item Code	Size
Inox-1006	M02W-007	9″×9″	Polstar-930	M02W-012	9″×9″	Polstar-937	M02W-015	9″×9″
	M02W-008	6″×6″		M02W-013	6″×6″		M02W-016	6″×6″
	M02W-009	4″×4″		M02W-014	4″×4″		M02W-017	4″×4″

Inox-1050

Inox-1080

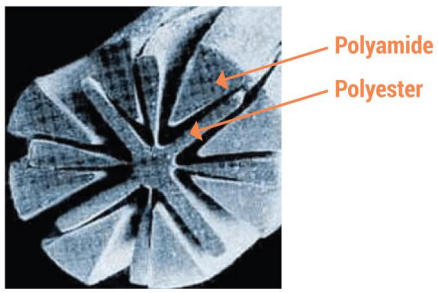

Polstar-937E

Model	Item Code	Size	Model	Item Code	Size	Model	Item Code	Size
Inox-1050	M02W-027	9″×9″	Inox-1080	M02W-028	9″×9″	Polstar-937E	M06W-001	9″×9″
							M06W-002	6″×6″
							M06W-003	4″×4″

Differences between microfiber wipers and polyester wipers

Materials

Microfiber wipers: microscopic polyester(70~80%) and polyamide(20~30%) fiber
Polyester wipers: 100% polyester yarn



Touch

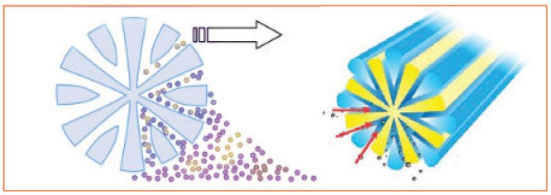
Microfiber wiper is much softer than Polyester wiper.

Absorbency

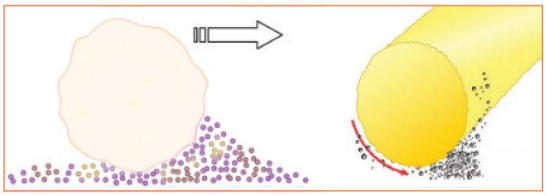
Microfiber wiper has a better absorbency thanks to its unique fiber structure.

The Cross Section of a single fiber

① Microfiber



② Polyester fiber



PVA Sponge Wiper

What is a PVA Sponge?

The PVA Sponge is a kind of wiper that is composed of uniform and continuous foamed open cells made by aged Poly Vinyl Alcohol as a raw material. The PVA Sponge has an excellent chemical resistance. It is lint & dust free and soft. The PVA Sponge can be used in many industries, such as a sophisticated cleaning sector in semiconductor industry or health & beauty industries. With being able to adjust its absorption, elasticity, size, density, color and shape, PVA sponge is highly versatile, which easily fits in any industrial fields.

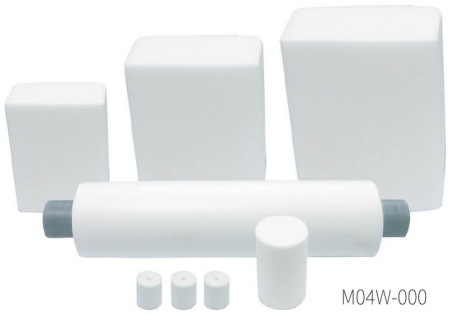
Features

- Excellent ability to remove moisture due to a strong hydrophilic feature, allowing it to absorb water more than 10 times its own weight.
- The wet texture is soft and elastic.
- No lint or dust is generated during the cleaning.
- Excellent chemical resistance & abrasion resistance

General use (sheet or blocks)

Widely used in various industrial fields, such as Cleanroom, PCB, Glass, Mirror, Optical instrument and many others. Other types (block, roller, sheet, etc.) are available.

M04W-001



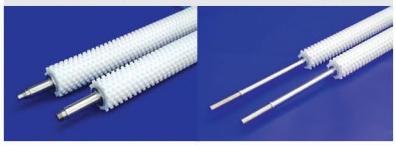
M04W-000

Packing 2 mm (T) x 9" x 9" 10 sheets/pack, 20 packs/ctn

Used in FPD & Semiconductor industries

Cleaning wafer surface after Chemical Mechanical Polishing (CMP) process.

PVA Sponge Roller (Embossing Type)



PVA Sponge Roller (Flat Type)

PVA Sponge Roller (Spur Type)

PVA Sponge Roller (Disk Type)

Non-Woven Wiper

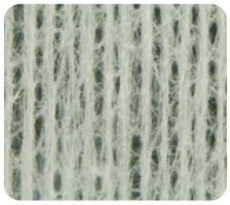
Features

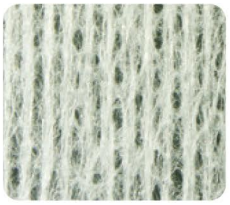
- High absorbency
- Low particle generation & non-volatile residues

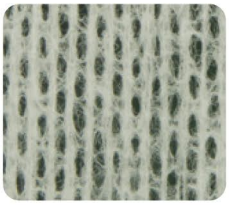
Applications

- Pre-cleaning for spare parts of equipment
- Cleanroom wall
- Cleanroom access floor
- Applicable for cleanroom environments

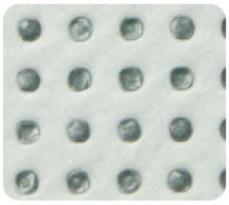
M05-W-000


M05W-009


M05W-010


M05W-011


M05W-012


M05W-013

Item Code / Parts No. / General Information		M05W-009		M05W-010		M05W-011		M05W-012		M05W-013	
		2025		2125		2225		2323		2429	
Weight	g/m²	30	± 3	30	± 3	35	± 3	68.2	± 3	80	± 3
Thickness	mm	0.25	± 0.02	0.25	± 0.02	0.3	± 0.02	0.264	± 0.02	0.5	± 0.01
Width	mm	250	± 2	250	± 2	250	± 2	230 (9")	± 2	290	± 2
Length	mm	250	± 2	250	± 2	250	± 2	230 (9")	± 2	300	± 2
Compositions	%	Rayon 70 PET 30		Rayon 70 PET 20 / *LMP 10		Rayon 100		Polyester 45 Cellulose 55		PP Non-Woven 100	
Standard Packing		100pcs/bag 30bags/carton		100pcs/bag 30bags/carton		100pcs/bag 30bags/carton		300pcs/bag 10bags/carton		50pcs/bag 10bags/carton	

*LMP(Low Melt Polyester)

Vital Statistics											
Fibers	(ea/m²)	9.5		9.2		< 30		-		3.2	
Particles	≥ 0.3μm	-		-		20-50	Biaxial Shake	-		-	
	≥ 0.5μm	25	Biaxial Shake	13	Biaxial Shake	250	LPC	7×10^8	TM-107 (Air)	≥ 30	Biaxial Shake
	cu.ft	980	Helmke Drum	83	Helmke Drum	-		-		-	
Absorbency	cc/m², sec.	337		313		380		< 4	TM-108 (sec.)	320	
Time to 1/2 sorption	sec	2		2		1		-		2	
2-Propanol	%	0.011		0.017		0.017		-		0.017	

Ions						
Na	ppm	98	99	23	61	25.34
K	ppm	8.5	9.1	0.7	7	4.18
Ca	ppm	ND	ND	< 0.15	-	1.13
Mg	ppm	ND	ND	-	-	0.25
Cl	ppm	-	-	5.3	18	15.99
NO2	ppm	-	-	-	-	4.45
NO3	ppm	-	-	-	-	7.83
SO4	ppm	-	-	-	-	21.02
NH3	ppm	-	-	-	-	5.42
Fe	ppm	-	-	-	-	0.15
Cu	ppm	-	-	-	-	0.1
Al	ppm	-	-	-	-	0.098
Ni	ppm	-	-	-	-	ND
Zn	ppm	-	-	< 0.15	-	0.15
Mn	ppm	-	-	-	-	0.15
Residue/Water	ppm	-	-	180	-	0.10
Residue/IPA	ppm	-	-	50	-	-