

MicroFirst LP[®]

58% Polyester / 42% Lyocell Nonwoven Cleanroom Wiper

MicroFirst LP[®] is a polyester / lyocell nonwoven wiper recommended for ISO Class 5 and above environments composed of a hydroentangled nonwoven blend of 58% polyester and 42% lyocell.

This combination of properties provides MicroFirst LP[®] with an exceptional level of cleanliness, absorbency, and softness required for more critical processing areas and sensitive surfaces.

MicroFirst LP[®] has the highest combination of purity and absorbency available in a nonwoven.



Key Attributes

- 58% polyester / 42% lyocell hydroentangled nonwoven blend
- No binders or other chemical additives

Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of lyocell
- Exceptionally pure and absorbent
- Very low particle and fiber generation
- Very durable with high wet strength
- Soft texture
- Chemically compatible with common cleaning and disinfecting solutions
- Autoclavable

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Polishing and cleaning metals, plastics, epoxy surfaces
- Cleaning in etch and photolithography environment
- Ideal for wiping delicate surfaces and sensitive components
- Spill control
- Applying and removing cleaning and disinfecting solutions

Other ISO Class 5 and above nonwoven wipers

- BlueSorb[®] 750
- Durx[®] 670
- Durx[®] 770
- MicroFirst[®]
- ProjX[®] 700
- Pro-Wipe[®] 750
- Pro-Wipe[®] 880
- ValuClean[®] Plus

Pre-Wetted Option

The same wiper material can be provided in pre-wetted formats for reduced VOC emissions, increased convenience, increased productivity, improved solvent control and cleaning protocol repeatability and reduced costs.

Sterile Validated Option

For aseptic processing areas, the same wiper material can be provided in a gamma irradiated validated sterile to a 10⁻⁶ sterility assurance level. Dry and pre-wetted versions available.

Technical Data:

Attribute		Units	Value	Test Method
Basis Weight		g/m ²	70.2	TAPPI T-410
Caliper		µm	299	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	20	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	4.1	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	377	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	5.4	
	Rate	seconds	3	
Non-Volatile Residue	DI Water	g/m ²	0.021	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0092	
Ions	Na ⁺	ppm	13	IEST-RP.CC004.3, Sec 7.2.2
	K ⁺	ppm	1.2	
	Ca ⁺⁺	ppm	20	
	Mg ⁺⁺	ppm	5.8	
	Cl ⁻	ppm	11	

Notes:

- Technical data represented in this table are typical values at the time of publication. These should not be used as product specifications.
- Due to differences in test methods applied and equipment utilized by different wiper manufacturers, valid product comparisons may only be obtained through side-by-side testing in the same test facility, under similar conditions
- Third party testing can be performed upon request

Order Information:

Product	Number	Size	Shts/pk	Pks/cs	Style
MicroFirst LP®	MFLP.0909.12	9x9" (23x23cm)	150	12	Stacked

Other Berkshire Products



Wipers



Glove Liners



Mop Systems



Documentation Systems



Face Masks



Swabs