

## MicroFirst LP<sup>®</sup>

### 58% Polyester / 42% Lyocell Nonwoven Cleanroom Wiper

MicroFirst LP<sup>®</sup> 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<sup>®</sup> with an exceptional level of cleanliness, absorbency, and softness required for more critical processing areas and sensitive surfaces.

MicroFirst LP<sup>®</sup> 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

#### Environmental

- Complies with RoHS 2002/05 and REACH requirements
- 42% lyocell fiber content is biodegradable

#### Other ISO Class 5 and above nonwoven wipers

- BlueSorb<sup>®</sup> 750
- Durx<sup>®</sup> 670
- Durx<sup>®</sup> 770
- MicroFirst<sup>®</sup>
- ProjX<sup>®</sup> 700
- Pro-Wipe<sup>®</sup> 750
- Pro-Wipe<sup>®</sup> 880
- ValuClean<sup>®</sup>

#### 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

#### 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<sup>-6</sup> sterility assurance level. Dry and pre-wetted versions available.

[www.berkshire.com](http://www.berkshire.com)

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## Technical Data:

Attribute		Units	Value	Test Method
Basis Weight		g/m <sup>2</sup>	66.4	TAPPI T-410
Caliper		µm	290	TAPPI T-411
Fibers	≥100µm	fibers/cm <sup>2</sup>	15	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 <sup>3</sup> /cm <sup>2</sup>	16	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m <sup>2</sup>	345	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	5.2	
	Rate	seconds	4	
Non-Volatile Residue	DI Water	g/m <sup>2</sup>	0.031	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m <sup>2</sup>	0.0032	
Ions	Na <sup>+</sup>	ppm	16	IEST-RP.CC004.3, Sec 7.2.2
	K <sup>+</sup>	ppm	1.5	
	Ca <sup>++</sup>	ppm	17	
	Mg <sup>++</sup>	ppm	4.5	
	Cl <sup>-</sup>	ppm	12	

### 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.0909.20	9x9" (23x23cm)	300	20	Stacked

For more information on our other contamination control products or technical consultation, please contact your Berkshire Sales Representative or e-mail: [info@berkshire.com](mailto:info@berkshire.com)

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