

## MicroFirst®

### 45% Cellulose / 55% Polyester Nonwoven Cleanroom Wiper

MicroFirst® is an apertured cellulose / polyester nonwoven wiper recommended for ISO Class 5 and above environments composed of a hydroentangled nonwoven blend of 45% cellulose and 55% polyester.

This combination of properties provides MicroFirst® with the level of absorbency, abrasion resistance and chemical compatibility required for controlled environments and applications where both cleanliness

and economy are of the most importance.



#### Key Attributes

- 45% cellulose / 55% polyester hydroentangled nonwoven blend
- Apertured for increased absorbency to weight ratio
- No binders or other chemical additives

#### Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of cellulose
- Apertured for increased absorbency and increased surface texture for improved cleaning efficiency
- Low extractable levels and particle and fiber counts
- Very durable with high wet strength
- Chemically compatible with common cleaning and disinfecting solutions
- Autoclavable
- Economical

#### Environmental

- Complies with RoHS 2002/05 and REACH requirements
- Lightweight design helps reduce landfill waste impact compared to heavier weight nonwovens
- 45% cellulose fiber content is biodegradable

#### Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Polishing and cleaning metals, plastics, epoxy surfaces
- General purpose wiping applications and spill control
- Cleaning of lab equipment
- General wiping in component prep, compounding and wash areas
- Applying and removing cleaning and disinfecting solutions

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

- BlueSorb® 750
- Durx® 670
- Durx® 770
- MicroFirst LP®
- ProjX® 700
- Pro-Wipe® 750
- Pro-Wipe® 880
- ValuClean®

#### 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>	57.6	TAPPI T-410
Caliper		μm	261	TAPPI T-411
Fibers	≥100μm	fibers/cm <sup>2</sup>	92	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5μm	x10 <sup>3</sup> /cm <sup>2</sup>	21	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m <sup>2</sup>	301	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	5.2	
	Rate	seconds	3	
Non-Volatile Residue	DI Water	g/m <sup>2</sup>	0.025	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m <sup>2</sup>	0.0050	
Ions	Na <sup>+</sup>	ppm	17	IEST-RP.CC004.3, Sec 7.2.2
	K <sup>+</sup>	ppm	1.3	
	Ca <sup>++</sup>	ppm	12	
	Mg <sup>++</sup>	ppm	4.0	
	Cl <sup>-</sup>	ppm	15	

### 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®	MF.0909.20	9x9" (23x23cm)	300	20	Stacked
MicroFirst®	MF.1212.20	12x12" (30x30cm)	150	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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