

## 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

#### 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® Plus

#### 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

#### 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
<b>Basis Weight</b>		g/m <sup>2</sup>	<b>56.3</b>	TAPPI T-410
<b>Caliper</b>		µm	<b>248</b>	TAPPI T-411
<b>Fibers</b>	≥100µm	fibers/cm <sup>2</sup>	<b>89</b>	IEST-RP-CC004.4 Sec 7.1.3 /Sec 7.2.2 modified
<b>Particles</b>	≥0.5µm	x10 <sup>3</sup> /cm <sup>2</sup>	<b>8.5</b>	IEST-RP-CC004.4 Sec 7.1.3 /Sec 7.2.1 modified
<b>Sorbency</b>	Capacity	mL/m <sup>2</sup>	<b>256</b>	IEST-RP-CC004.4 Sec 9.1 /Sec 9.2 modified
	Efficiency	mL/g	<b>4.5</b>	
	Rate	seconds	<b>3</b>	
<b>Non-Volatile Residue</b>	DI Water	g/m <sup>2</sup>	<b>0.023</b>	IEST-RP-CC004.4 Sec 8.1.2
	IPA	g/m <sup>2</sup>	<b>0.0044</b>	
<b>Ions</b>	Na <sup>+</sup>	ppm	<b>15</b>	IEST-RP-CC004.4 Sec 8.2.2
	K <sup>+</sup>	ppm	<b>2.6</b>	
	Ca <sup>++</sup>	ppm	<b>18</b>	
	Mg <sup>++</sup>	ppm	<b>5.4</b>	
	Cl <sup>-</sup>	ppm	<b>12</b>	

### 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

## Other Berkshire Products



Wipers



Glove Liners



Mop Systems



Documentation Systems



Face Masks



Swabs