

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

- Lightweight design helps reduce landfill waste impact compared to heavier weight nonwovens

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 10⁻⁶ sterility assurance level. Dry and pre-wetted versions available.

Technical Data:

Attribute		Units	Value	Test Method
Basis Weight		g/m ²	56.3	TAPPI T-410
Caliper		μm	248	TAPPI T-411
Fibers	≥100μm	fibers/cm ²	89	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5μm	x10 ³ /cm ²	8.5	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	256	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	4.5	
	Rate	seconds	3	
Non-Volatile Residue	DI Water	g/m ²	0.023	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0044	
Ions	Na ⁺	ppm	15	IEST-RP.CC004.3, Sec 7.2.2
	K ⁺	ppm	2.6	
	Ca ⁺⁺	ppm	18	
	Mg ⁺⁺	ppm	5.4	
	Cl ⁻	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®	MF.0909.20	9x9" (23x23cm)	300	20	Stacked
MicroFirst®	MF.1212.20	12x12" (30x30cm)	150	20	Stacked

Other Berkshire Products



Wipers



Mop Systems



Face Masks



Glove Liners



Documentation Systems



Swabs