

## 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® and economy are of the most importance. with the level of absorbency, abrasion resistance and chemical compatibility required for controlled environments and applications where both cleanliness



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

## Technical Data:

| Attribute            |                  | Units                             | Value  | Test Method  |
|----------------------|------------------|-----------------------------------|--------|--|
| Basis Weight         |                  | g/m <sup>2</sup>                  | 56.3   | TAPPI T-410  |
| Caliper              |                  | µm                                | 248    | TAPPI T-411  |
| Fibers               | ≥100µm           | fibers/cm <sup>2</sup>            | 89     | TEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2               |
| Particles            | ≥0.5µm           | x10 <sup>3</sup> /cm <sup>2</sup> | 8.5    | TEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1               |
| Sorbency             | Capacity         | mL/m <sup>2</sup>                 | 256    | TEST-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 <sup>2</sup>                  | 0.023  | TEST-RP.CC004.3, Sec 7.1.2                           |
|                      | IPA              | g/m <sup>2</sup>                  | 0.0044 |  |
| Ions                 | Na <sup>+</sup>  | ppm                               | 15     | TEST-RP.CC004.3, Sec 7.2.2                           |
|                      | K <sup>+</sup>   | ppm                               | 2.6    |  |
|                      | Ca <sup>++</sup> | ppm                               | 18     |  |
|                      | Mg <sup>++</sup> | ppm                               | 5.4    |  |
|                      | 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® | 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