

## UltraSeal® 3000 12x12

Sealed Edge Cleanroom Laundered 100% Polyester Knit

UltraSeal® 3000 is a high sorbency, tubular, sealed edge cleanroom laundered two-ply wiper required for ISO Class 3 and above environments composed of 100% continuous filament polyester knit fabric.

These properties provide UltraSeal® 3000 with the highest level of cleanliness, abrasion resistance and chemical compatibility required for ISO Class 3 and above environments and applications requiring

critical control of contaminants combined with superior performance. UltraSeal® 3000 provides excellent cleaning effectiveness in tough applications due to patented edge seal and pinsonic design.



### Key Attributes

- 100% continuous filament polyester knit
- Two-ply pinsonic tubular construction
- Patented sealed edge process for reduced fiber contamination; Patent #5,229,181
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom

### Benefits

- Critically low particles, fibers, ions and extractables
- Chemically compatible with IPA, Acetone and other solvents
- High sorbency level
- Pinsonic design adds surface texture that aids in stubborn residue removal
- Low endotoxin levels
- Patented sealed edge process combined with tubular design offers excellent abrasion resistance for the toughest cleaning applications

### Environmental

- Complies with RoHS 2002/05 and REACH requirements

### Other Class 3 and above wipers

- MicroSeal SuperSorb®
- MicroSeal SuperSorb® Lite
- MicroSeal® 1200
- MicroSeal® VP
- ValuSeal® LP
- ValuSeal® HA
- ValuSeal® 1500

### Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Excellent for spill control and processing areas where sorbency is of importance
- Chamber cleaning and CMP processing
- Designed for removal of tough residues in critical applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Removing cleaning and disinfecting solutions

### Value Pack Option

The value pack option provides the same great performance in a more economical bulk packaging format.

### 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)

Contact: Tel 1 800 242 7000 / 1 413 528 2602  
[info@berkshire.com](mailto:info@berkshire.com)

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|----------------|-------------------------|-------------------------|--|
| <b>America</b> | Tel 1 413 528 2602      | Fax 1 413 528 2614      | <a href="mailto:info@berkshire.com">info@berkshire.com</a>                 |
| <b>Europe</b>  | Tel 44 (0) 870 757 2877 | Fax 44 (0) 870 757 2878 | <a href="mailto:enquiries@berkshire.uk.com">enquiries@berkshire.uk.com</a> |
| <b>SE Asia</b> | Tel 65 6252 4313        | Fax 65 6252 4312        | <a href="mailto:enquiries@berkshire.com.sg">enquiries@berkshire.com.sg</a> |
| <b>Japan</b>   | Tel 81 3 5827 2380      | Fax 81 3 5827 2382      | <a href="mailto:master@berkshire.co.jp">master@berkshire.co.jp</a>         |

## Technical Data:

| Attribute            |                  | Units                             | Value  | Test Method  |
|----------------------|------------------|-----------------------------------|--------|--|
| Basis Weight         |                  | g/m <sup>2</sup>                  | 189    | TAPPI T-410  |
| Caliper              |                  | µm                                | 552    | TAPPI T-411  |
| Fibers               | ≥100µm           | fibers/cm <sup>2</sup>            | 0.0075 | IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2               |
| Particles            | ≥0.5µm           | x10 <sup>3</sup> /cm <sup>2</sup> | 0.55   | IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1               |
| Sorbency             | Capacity         | mL/m <sup>2</sup>                 | 522    | IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified |
|                      | Efficiency       | mL/g                              | 2.8    |  |
|                      | Rate             | seconds                           | 1      |  |
| Non-Volatile Residue | DI Water         | g/m <sup>2</sup>                  | 0.0047 | IEST-RP.CC004.3, Sec 7.1.2                           |
|                      | IPA              | g/m <sup>2</sup>                  | 0.025  |  |
| Ions                 | Na <sup>+</sup>  | ppm                               | 0.0049 | IEST-RP.CC004.3, Sec 7.2.2                           |
|                      | K <sup>+</sup>   | ppm                               | 0.041  |  |
|                      | Ca <sup>++</sup> | ppm                               | 0.0086 |  |
|                      | Mg <sup>++</sup> | ppm                               | 0.0015 |  |
|                      | Cl <sup>-</sup>  | ppm                               | 0.023  |  |

### 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   |
|-----------------|---------------|------------------|---------|--------|---------|
| UltraSeal® 3000 | US3000.1212.6 | 12x12" (30x30cm) | 100     | 6      | 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)

## Other Berkshire products

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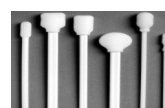
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