

# ULTIMA II®

## Micro-denier Optical Wiper - ISO Class 3+ Cleanrooms

LYNBOND



Manufactured by  
**HANSONG**

### About

Ultima II® is composed of a Polyester and Nylon knitted (Micro-denier) fabric.

Engineered for sensitive and critical non-abrasive applications in mind. The blade-shaped fibre cross-section gently lifts, encapsulates, and removes particulates even without a wetting agent.

Combined with the ultra-fine, soft fibres protects even the most highly sensitive and critical scratch-prone surfaces. The Ultima II® is ultrasonically cut & sealed on all four edges, laundered, processed and packaged in a ISO Class 3+ cleanroom, providing ultra-low levels of particles, ions and extractables makes the Ultima II® consistent with Class 1 – 10 environments.

### Specification

- Compatibility: ISO Class 3+ Cleanrooms
- Size: 4 x 4", 9 x 9", 12 x 12"
- 70% Polyester / 30% Nylon Micro-denier wiper
- Ultrasonically cut & sealed treatment on all 4 edges
- Laundered and double packaged in a ISO Class 4 cleanroom
- Non sterile
- Colour: Cream

### Features

- Excellent for sensitive and scratch-prone surfaces
- Soft feel, durable, and the ability to wipe surfaces clean without using a wetting agent
- Excellent absorption capabilities
- 8 x times the number of filaments
- 4 x times the surface area of standard Polyester wipers
- Blade shaped ultra-fine fibre cross-section lifts, entraps, and removes particulates from critical surfaces
- Low generation of static electricity
- Cleans efficiently with less solvent usage than traditional wipers



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### Application

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- Recommended in ISO Class 3+ cleanrooms
- Designed for scratch prone sensitive surfaces
- Used in Display, Semiconductor, Optical and Lens Manufacturing
- Recommended for cleaning delicate process in critical environments
- Applying and removing solvents



### Cleanroom classification

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- Recommended for use in ISO Class 3+ cleanroom applications
- Laundered using 17MΩ ultra-pure D.I water

### Quality Standards

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- Manufactured in a facility holding ISO 9001:2015
- Lot Traceability



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## Micro-denier Wiper - ISO Class 3+ Cleanrooms

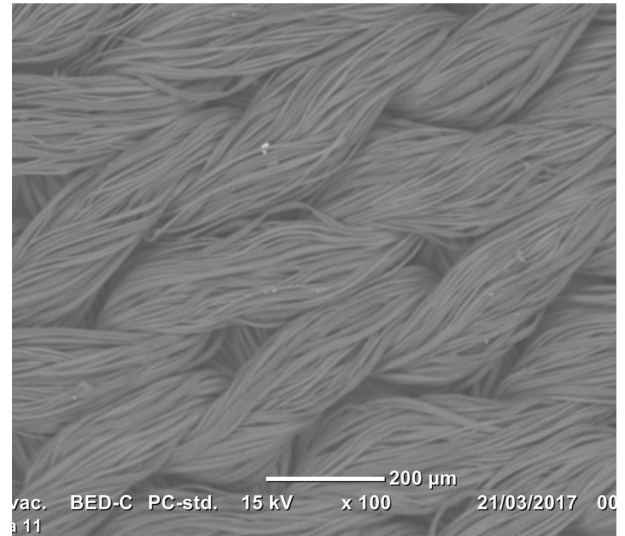
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### Technical Data

|   |                |
|---|----------------|
| <b>BASIC WEIGHT (g/m<sup>2</sup>)</b>             | <b>166</b>     |
| <b>PARTICLES &gt; 0.3µm / m<sup>2</sup> (ea)</b>  | <b>&lt; 12</b> |
| <b>EXTRACTABLES (g / m<sup>2</sup>)</b>           |                |
| <b>D.I. WATER<br/>(17MΩ ultra-pure D.I water)</b> | <b>0.029</b>   |
| <b>2 - PROPANOL</b>                               | <b>0.054</b>   |
| <b>ABSORBANCY</b>                                 |                |
| <b>(ml / m<sup>2</sup>)</b>                       | <b>471</b>     |
| <b>ml / g</b>                                     | <b>2.8</b>     |
| <b>RATE OF ABSORPTION (Seconds)</b>               | <b>1</b>       |
| <b>METALLIC IONS (ppm)</b>                        |                |
| <b>Na</b>   | <b>0.46</b>    |
| <b>Mg</b>   | <b>0.12</b>    |
| <b>Ca</b>   | <b>0.38</b>    |



### INVENTORY MANAGEMENT

|                             |  |
|-----------------------------|--|
| <b>STORAGE INSTRUCTIONS</b> | <b>Store in cool dry place (below 28°C) away from direct sunlight and heat</b> |
| <b>SHELF LIFE</b>           | <b>36 months from Date of Manufacture</b>                                      |

### ORDERING INFORMATION

|                     |                            |                             |                              |
|---------------------|----------------------------|-----------------------------|------------------------------|
| <b>PRODUCT CODE</b> | <b>ULTIMA II/4</b>         | <b>ULTIMA II /9</b>         | <b>ULTIMA II/12</b>          |
| <b>SIZE</b>         | <b>10 X 10 cm (4 x 4")</b> | <b>23 x 23 cm ( 9 x 9")</b> | <b>30 x 30 cm (12 x 12")</b> |
| <b>WIPES / PACK</b> | <b>600</b>                 | <b>150 (2 x 75)</b>         | <b>50</b>                    |
| <b>PACKAGING</b>    | <b>BULK PACKED</b>         | <b>FLAT PACKED</b>          | <b>FLAT PACKED</b>           |

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