



MiraSWAB®

Cleaning of critical surfaces

MiraSWAB® 1500 and 1600 series swabs feature a patent-pending micro fiber fabric over foam Tipped bonded to a polypropylene shaft resulting in a swab that is soft, conformable to work surfaces yet both resistant to abrasion and solvents. MiraSWABS® for the first time offer the cleaning performance of micro fiber fabrics with the scratch free properties of foam for optics, HDD, semiconductor and biomedical applications.

Common characteristics and benefits:

- Fabric over foam construction compatible with aggressive solvents such as acetone, Kyzen and MEK
- Super soft foam core enables the swabs to conform to articulated surfaces for good cleaning efficiency
- Micro fiber fabric enables excellent removal of difficult to remove stains and particles
- Proprietary cleaning process ensures low extractable for streak free cleaning

Applications:

- Cleaning stains and particles from scratch sensitive optics and optical assemblies
- Cleaning applications that require acetone, MEK, NMP and Kyzen
- Cleaning blind surfaces such as O-ring grooves and ink jet print heads
- Replacing cotton and chamois swabs in applications requiring cotton like absorbency but without the fibers
- Removing excess materials in fine assembly operations

Physical properties:

| | |
|-------------|--|
| Tip / Outer | MiraWIPE® Micro fiber clean room fabric |
| Tip / Inner | 100 PPI Ester based polyurethane foam |
| Tip Bond | thermal-ultrasonic |
| Handle | polypropylene and ESD safe polypropylene |

Cleanliness:

| | | |
|--------------------------|---------------|--|
| Particles (via LPC>.5µm) | <10k per swab | <u>Ionics</u> (via IC in micrograms per swab) |
| | | Chloride: <.9 |
| NVR (mg/swab) | | Sulfate: <.4 |
| DI H ₂ O | <.15 | Sodium: <.7 |
| IPA | <.40 | Fluoride: <.4 |
| | | Nitrate: <.2 |
| | | Magnesium: <.2 |

Free of Silicone / Amide




ESD performance:




| | |
|---------------------|---|
| Dissipation: | 1000V – 10V in less than 1 second at 50% RH |
| Volume resistivity: | 1600-type static dissipative swabs – handle - 10 ⁸ |




Various models available (dimensions in mm)

Tip: MiraWIPE®

| |  HT1500FC |  HT1501FC |  HT1502FC |
|---------------|--|--|--|
| Article-no.: | SWAB1500FC | SWAB1501FC | SWAB1502FC |
| Tip | Oval | Flexible, oval | Flexible |
| Thickness: | 4,9 | 3,3 | 2,7 |
| Width: | 10,7 | 5,9 | 3,9 |
| Length: | 21,8 | 17,8 | 10,4 |
| Handle | | | |
| Material: | Polypropylene | Polypropylene | Polypropylene |
| Diameter: | 2,9 | 2,9 | 2,5 |
| Length: | 120 | 133,7 | 58,9 |
| Total length: | 141,8 | 151,5 | 69,3 |

| |  HT1511FC |  HT1550C |  HT1602FC |
|---------------|--|---|--|
| Article-no.: | SWAB1511FC | SWAB1550C | SWABA1602-FC |
| Tip | Flexible, oval | Pointed | Flexible |
| Thickness: | 3,3 | 2,2 | 2,7 |
| Width: | 5,9 | 2,3 | 3,9 |
| Length: | 17,8 | 10,5 | 10,4 |
| Handle | | | |
| Material: | Polypropylene | Polypropylene | Polypropylenem antistatic |
| Diameter: | 2,9 | 2,5 | 2,5 |
| Length: | 76,7 | 58,1 | 59,1 |
| Total length: | 94,5 | 68,6 | 69,5 |

| |  HT1650FC |
|---------------|--|
| Article-no.: | SWABA1650-FC |
| Tip | Pointed |
| Thickness: | 2,3 |
| Width: | 2,4 |
| Length: | 10,5 |
| Handle | |
| Material: | Polypropylene, antistatic |
| Diameter: | 2,5 |
| Length: | 57,9 |
| Total length: | 68,4 |

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