



MiraSWAB®





cleaning critical surfaces

Description

MiraSWAB® 1500 and 1600 Series Swabs feature a patent-pending micro fiber fabric over foam tip 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 Bio-medical applications.

The MiraSWAB® 1600 Series employs a static dissipative handle for ESD sensitive 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 | 100PPI Ester Based Polyurethane Foam |
| Tip Bond | Thermal-Ultrasonic |
| Handle | Polypropylene and ESD Safe Polypropylene |



Swab Models

Measured in Millimeters. ± 0.02

| Product Name | HT1500FC | HT1501FC | HT1502FC | HT1511FC | HT1550C | HT1602FC | HT1629FC | HT1630C | HT1630FC | HT1650FC |
|-----------------|---|---|---|---|---|---|---|--|---|---|
| |  |  |  |  |  |  |  |  |  |  |
| Head Material | MiraWIPE® | | | | | | | | | |
| Head Thickness | 4.9 | 3.3 | 2.7 | 3.3 | 2.2 | 2.7 | 2.3 | 1.5 | 2.0 | 2.3 |
| Head Width | 10.7 | 5.9 | 3.9 | 5.9 | 2.3 | 3.9 | 3.7 | 3.3 | 3.3 | 2.4 |
| Head Length | 21.8 | 17.8 | 10.4 | 17.8 | 10.5 | 10.4 | 10.8 | 10.3 | 10.3 | 10.5 |
| Handle Material | Polypropylene | | | | | Polypropylene with Permanent ESD Additive | | | | |
| Handle Diameter | 2.9 | 2.9 | 2.5 | 2.9 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Handle Length | 120.0 | 133.7 | 58.9 | 76.7 | 58.1 | 59.1 | 58.1 | 59.2 | 59.2 | 57.9 |
| Total length | 141.8 | 151.5 | 69.3 | 94.5 | 68.6 | 69.5 | 68.9 | 69.5 | 69.5 | 68.4 |
| Head Bond | Thermal | | | | | | | | | |
| Handle Color | Blue | | | | | White | | | | |
| Description | Oval Tip | Flexible, Oval Tip | Flexible Tip | Flexible Oval Tip | Pointed Tip | Flexible Tip | Flexible Paddle Tip | Flexible Paddle Tip | Flexible Paddle Tip | Pointed Tip |

Cleanliness

Particles (via LPC >.5µm) <10k per swab

NVR (mg/swab)

DI H2O <.15

IPA <.40

Ionics (Via IC in Micrograms per swab)

Chloride <.9

Sulfate <.4

Sodium <.7

Fluoride <.4

Nitrate <.2

Magnesium <.2

Free of Silicone/Amide

ESD Performance

Dissipation: 1000 volts to 10 volts in less than 1 second at 50% RH

Volume Resistivity: 1900 Static Dissipative Swabs - Handle - 10⁸