

MiraSWAB Product Information

Description:

MiraSWAB® 1500 and 1600 Series Swabs feature a patent-pending micro fiber fabric tip thermally bonded to a polypropylene shaft. The unique fabric over foam and fabric over fabric construction enables easy cleaning of scratch sensitive surfaces and blind areas as the two layers provide a soft conformable tool resulting in a swab that is soft, yet both resistant to abrasion and solvents. MiraSWABS® offer the cleaning performance of micro fiber fabrics with the scratch-free properties of foam for Optics, HDD, Semiconductor and Life Science applications.





HT15xxTC MiraSWAB® features a microfiber over a polyester fabric. It is recommended for cleaning optical surfaces when using methanol, ethyl ether or acetone.

HT15xxFC MiraSWAB® features a microfiber over foam. It is ideal when tip cushioning and conformability are desired.

HT15xxC MiraSWAB® features a single layer of fabric to create super thin swabs for tight spaces.

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.



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. \pm 0.02

| Product Name | HT150 OFC | HT1501 FC | HT1502 FC | HT150 9C | HT150 9X | 1529T C | HT155 0C | HT1587T C | HT1629 FC | HT1630F C | |
|--|---|---|---|---|---|---|--|---|---|---|--|
| |  |  |  |  |  |  |  |  |  |  | |
| Head Material | MiraWIPE® | | | | | | | | | | |
| Head Thickness | 4.9 | 3.3 | 2.7 | 1.3 | 1.3 | 2.4 | 2.3 | 5.2 | 2.3 | 2.0 | |
| Head Width | 10.7 | 5.9 | 3.9 | 1.3 | 1.3 | 3.9 | 2.5 | 15.0 | 3.7 | 3.3 | |
| Head Length | 21.8 | 17.8 | 10.4 | 7.0 | 7.0 | 9.8 | 10.0 | 24.0 | 10.8 | 10.3 | |
| Handle Material | Polypropylene | | | | | | | | Polypropylene with Permanent ESD Additive | | |
| Handle Diameter | 2.9 | 2.9 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 6.9 | 2.5 | 2.5 | |
| Handle Length | 120.0 | 133.7 | 58.9 | 61.4 | 61.4 | 58.8 | 58.7 | 102.5 | 58.1 | 59.2 | |
| Total Length | 141.8 | 151.5 | 69.3 | 68.4 | 68.4 | 68.6 | 68.7 | 126.5 | 68.9 | 69.5 | |
| Head Bond | Thermal | | | | | | | | | | |
| Handle Color | Blue | | | | | | | White | | | |
| Description | Oval Tip | Flexible Oval Tip | Flexible Tip | Needle Tip | Needle Tip | Flexible Paddle | Pointed Tip | Rectangular Shaped Tip | Flexible Paddle Tip | Flexible Paddle Tip | |
| FC - Fabric over Foam TC - Fabric over Fabric C - Single Layer Fabric X - Ultra Microfiber | | | | | | | | | | | |

Cleanliness:

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

NVR (mg/swab)

DI H2O <.15

IPA <.40

Ionics (Via IC in mg/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 - 10^8