

## MiraSWAB®

*cleaning critical surfaces*





### 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®** featuring micro fiber over a polyester fabric are recommended for cleaning optical surfaces when using methanol, ethyl ether or acetone.

**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

Call Practical Tools now to speak with one of our knowledgeable, expert sales engineers. No matter what your application and cleaning needs are, Practical Tools is dedicated to providing the perfect solution for your requirements quickly, easily, and at the right price!

## 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 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<sup>8</sup>

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