



MiraSWAB®

Cleaning of critical surfaces

MiraSWAB® 1500 and 1600 series swabs feature a patent-pending micro fiber fabric over foam TIPP 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

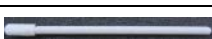



Various models available (dimensions in mm)

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

	 HT1629FC	 HT1650FC
Article-no.:	SWABA1629-FC	SWABA1650-FC
Tip	Flexible, flat	Pointed
Thickness:	2,3	2,3
Width:	3,7	2,4
Length:	10,8	10,5
Handle		
Material:	Polypropylene, antistatic	Polypropylene, antistatic
Diameter:	2,5	2,5
Length:	58,1	57,9
Total length:	68,9	68,4

hans j. michael gmbh