



MiraSWAB® 1500 Series Swabs

Standard-Length Swabs for Versatile Cleaning



Features

MiraSWAB® 1500 Microfiber Series Swabs feature a patent-pending tip constructed with single and double layers of microfiber fabric over foam and polyester layers. The double-layer tip design enhances cushioning and conformability to work surfaces, making it ideal for cleaning recessed and hard-to-reach areas. Single-layer tip designs are perfect for cleaning very tight spaces, such as 90-degree angles. All swab tip materials use thermal bonding techniques to ensure a secure, clean connection to the polypropylene shaft. MiraSWABs are cleaned in an ISO Class 5 clean room using a proprietary process, resulting in extremely low particle and NVR levels and streak-free cleaning performance, even with solvents like acetone, methanol, and ethyl ether. These microfiber swabs resist degradation from abrasion and aggressive solvents, making them suitable for the most demanding operations. MiraSWAB® microfiber swabs combine the superior cleaning performance of microfiber fabrics with the scratch-free properties of foam, making them ideal for optics, HDD, semiconductor, electronic assembly, and biomedical applications.

Applications

- General cleaning tasks in various industries.
- Cleaning applications on surfaces and in moderately deep cavities.
- Removing contaminants from optical components, electronic assemblies, and other precision parts.
- Streak-free cleaning of most surfaces in labs, manufacturing, and cleanroom environments.
- Ideal for use with solvents such as acetone, IPA, xylene, toluene, or methanol.

Benefits

- Soft, conformable fabric tip conforms to various surface shapes for effective cleaning.
- Safe for cleaning delicate surfaces due to the scratch-free construction.
- Effective cleaning performance with aggressive solvents.
- Low extractable design minimizes cleaning residue.



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Standard Length Swab Models | Measured in Millimeters. ± 0.02

Part No.	HT1502FC	HT1509C	HT1511FC	HT1529FC	HT1529TC	HT1550C
Image						
Head Material (Outer)	MiraWIPE® Microfiber					
Head Material (Inner)	Foam	N/A	Foam	Foam	Polyester	N/A
Head Thickness	2.7 mm	1.3 mm	3.3 mm	2.5 mm	2.4 mm	2.2 mm
Head Width	3.9 mm	1.3 mm	5.9 mm	3.8 mm	3.9 mm	2.3mm
Head Length	10.7 mm	7.0 mm	17.8 mm	10.0 mm	9.8 mm	10.5 mm
Handle Material	Polypropylene					
Handle Diameter	2.5 mm	2.5 mm	2.9 mm	2.5 mm	2.5 mm	2.5 mm
Handle Length	58.4 mm	61.4 mm	76.7 mm	58.7 mm	58.8 mm	58.1 mm
Total Swab Length	69.1 mm	68.4 mm	94.5 mm	68.7 mm	68.6 mm	68.6 mm
Head Bond	Thermal					
Handle Color	Blue					
Description	3" Semi-Flexible Small Bulb Tip	3" Flexible Micro Needle Tip	4" Flexible Medium Cylinder Tip	3" Flexible Mini Paddle Tip	3" Flexible Mini Paddle Tip	3" Pointed Tip

Cleanliness

Particles (via LPC >.5µm)		Ionics (Via IC in mg/swab)	
<10k per swab		Chloride	< 0.9
		Sulfate	< 0.4
		Sodium	< 0.7
		Fluoride	< 0.4
		Nitrate	< 0.2
		Magnesium	< 0.2
TNVR's (mg/swab)			
In DI Water	In IPA		
< 0.15	< 0.40		



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MiraSWAB® 1500 Series Swabs

Extended-Length Swabs for Deep Cleaning Applications



Features

MiraSWAB® 1500 Microfiber Series Swabs feature a patent-pending tip constructed with single and double layers of microfiber fabric over foam and polyester layers. The double-layer tip design enhances cushioning and conformability to work surfaces, making it ideal for cleaning recessed and hard-to-reach areas. Single-layer tip designs are perfect for cleaning very tight spaces, such as 90-degree angles. All swab tip materials use thermal bonding techniques to ensure a secure, clean connection to the polypropylene shaft. MiraSWABs are cleaned in an ISO Class 5 clean room using a proprietary process, resulting in extremely low particle and NVR levels and streak-free cleaning performance, even with solvents like acetone, methanol, and ethyl ether. These microfiber swabs resist degradation from abrasion and aggressive solvents, making them suitable for the most demanding operations. MiraSWAB® microfiber swabs combine the superior cleaning performance of microfiber fabrics with the scratch-free properties of foam, making them ideal for optics, HDD, semiconductor, electronic assembly, and biomedical applications.

Applications

- Cleaning applications requiring access to deep cavities and narrow spaces beyond 4 inches in depth.
- Removing contaminants from borescopes, tubing, blind holes, and other deep features.
- Streak-free cleaning of long, narrow components like waveguides or internal surfaces of cylinders.
- Applications in cleanrooms, medical device manufacturing, and other environments requiring deep solvent-based cleaning.

Benefits

- Exceptional reach allows for cleaning in hard-to-reach areas exceeding 4 inches in depth.
- Soft, conformable fabric tip conforms to complex geometries for thorough cleaning.
- Safe for cleaning delicate surfaces due to the scratch-free construction.
- Effective cleaning performance with aggressive solvents.
- Low extractable design minimizes cleaning residue.



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Extended Length Swab Models | Measured in Millimeters. ± 0.02

Part No.	HT1500FC	HT1501FC	HT1501TC	HT15076X	HT1507X2	HT1578FC	HT1587TC
Image							
Head Material (Outer)	MiraWIPE® Microfiber						
Head Material (Inner)	Foam	Foam	Polyester	N/A	Microfiber	Foam	Polyester
Head Thickness	5.0 mm	3.3 mm	2.9 mm	1.5 mm	3.75 mm	8.48 mm	5.2 mm
Head Width	10.5 mm	5.9 mm	6.3 mm	1.5 mm	5.0 mm	16.0 mm	15.0 mm
Head Length	20.5 mm	17.8 mm	17.0 mm	12.8 mm	20.5 mm	50.0 mm	24.0 mm
Handle Material	Polypropylene						
Handle Diameter	2.9 mm	2.9 mm	2.9 mm	3.0 mm	2.9 mm	2.0 mm	6.9 mm
Handle Length	121.5 mm	133.7 mm	134.5 mm	128.2 mm	121.8 mm	68.98 mm	102.5 mm
Total Swab Length	142 mm	151.5 mm	151.5 mm	153.0 mm	142.3 mm	128.98 mm	126.5 mm
Head Bond	Thermal						
Handle Color	Blue					Gray	White
Description	6" Rigid Large Oval Tip	6" Flexible Medium Cylinder Tip	6" Flexible Medium Cylinder Tip	6" Flexible Super Fine Tip	6" Rigid Cylinder Tip	5" Semi-Rigid Extra Large Paddle Tip	5" Semi-Rigid Large Square Paddle Tip

Cleanliness

Particles (via LPC >.5µm)		Ionics (Via IC in mg/swab)	
<10k per swab		Chloride	< 0.9
		Sulfate	< 0.4
		Sodium	< 0.7
		Fluoride	< 0.4
		Nitrate	< 0.2
		Magnesium	< 0.2
TNVR's (mg/swab)			
In DI Water	In IPA		
< 0.15	< 0.40		



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