

# ESD Safe UltraSOLV® 1900 and 1900X Series Swabs

*cleaning critical surfaces*



UltraSOLV® Tip  
Out-of-the-Bag



Competitor A (Compressed Cotton Tip)  
Out-of-the-Bag



Competitor B (100PPI)  
Out-of-the-Bag



UltraSOLV® Tip After HSA Swabbing



Competitor A After HSA Swabbing







Competitor B After HSA Swabbing



## Description

ESD Safe UltraSOLV® 1900 Series Swabs provide streak-free cleaning of static sensitive components. Excellent absorbency maximizes particle and residue removal from components. The UltraSOLV® foam tip offers excellent abrasion resistance, minimizing particle generation due to abrasion when cleaning sharp or rough surfaces such as suspensions, flex circuit bonding pads and sliders. UltraSOLV® foam generates < 5 volts of tribocharge on commonly used HDD Slider surfaces.

## Advantages

-  Excellent absorbency and abrasion resistance reduces contamination when cleaning sharp or rough surfaces such as suspensions, sliders, HGAs and HSAs. (See pictures at right)
-  Extremely low ionic and NVR Levels
-  Both the swab tip and handle are static dissipative
-  Low tribocharge, less than 5 volts dry

## ESD Performance

**Tribocharging:** Tip will not tribocharge commonly used sliders and suspensions.

**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>  
1900X Conductive Swabs - Handle - 10<sup>4</sup>

UltraSOLV® Tip - 10<sup>10</sup>  
UltraSOLV® Tip - 10<sup>10</sup>

## Cleanliness

**Particles:** Less than 2000, .5µ to .25µ particles per swab

**TNVRs: (Total Non-Volatile Residue):** µg / swab

**NVR (DI Water)** < 0.15                      **NVR (IPA)** < 0.40

**Ionics:** µg/swab




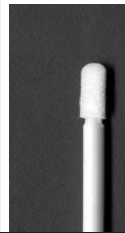




Chloride	< 0.90	Magnesium	< 0.02
Sodium	< 0.2	Sulfate	< 0.06
Fluoride	N/D	Nitrate	N/D
Bromide	N/D	Potassium	< 0.02
Calcium	< 0.02		



*No Silicone, Amide, or Phthalates*

# Swab Models

*cleaning critical surfaces*

Product Name	HT1902	HT1914	HT1929	HT1930	HT1932	HT1948	HT1949	HT1950
								
Head Material	UltraSOLV® Foam							
Head Thickness	3.8	2.4	2.9	2.2	3.6	3.4	3.2	2.6
Head Width	4.1	2.4	3.8	3.7	3.6	3.4	3.3	2.6
Head Length	10.5	9.5	10.0	9.2	11.0	17.3	15.8	10.5
Handle Material	1900 Series - Modified Polypropylene 1900X Series - Polypropylene With Carbon Fiber							
Handle Diameter	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Handle Length	58.0	58.5	58.7	59.0	57.5	65.1	69.4	58.4
Total Swab Length	68.5	68.0	68.7	68.2	68.5	82.4	85.2	68.9
Head Bond	Thermal							
Handle Color	Black							
Description	3" Semi-Flexible, Bulb Tip	3" Semi-Flexible, Spear Tip	3" Flexible, Paddle Tip	3" Thin, Flexible, Paddle Tip	3" Rigid, Round Tip	3" Rigid, Large, Pointed Tip	3" Semi-Flexible, Arrow Tip	3" Rigid, Spear Tip

## Available Packaging

Static Dissipative Swab P/N	Conductive Swab P/N	Package Quantity UOM	Case Quantity UOM
HT1902-500	HT1902X-500	500/Bag	25 Bags/Case
HT1929-500	HT1929X-500	500/Bag	25 Bags/Case
HT1930-500	HT1930X-500	500/Bag	25 Bags/Case
HT1932-500	HT1932X-500	500/Bag	25 Bags/Case
HT1950-500	HT1950X-500	500/Bag	25 Bags/Case

FOR TECHNICAL SUPPORT AND SITE TRAINING: Please contact our technical assistance services at 760.599.7160 or e-mail: [info@foamtecintlwcc.com](mailto:info@foamtecintlwcc.com) and our staff will arrange for a technical service engineer or a field sales engineer to assist you.



[www.foamtecintlwcc.com](http://www.foamtecintlwcc.com)

Rev.D

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