



# Cleanroom Swab

## FS Series TDS

### TECHNICAL DATA SHEET

## Open Cell Polyurethane Foam Swab

### Features & Benefits

- Thermally sealed polyurethane foam head over rigid paddle
- Open cell PU Foam are used
- Good chemical compatibility with a variety of solutions
- Soft and non-abrasive
- Excellent strength
- Low particle and fiber generation
- Readily absorbs solvents and solutions and grabs particulates
- 100% virgin polypropylene handle ensures no additional contaminants are introduced while offering excellent chemical resistance
- Autoclavable in dry heat and steam

### Applications

- Applying and removing lubricants, adhesives and other solutions in a critical clean environment
- Scrubbing recessed areas
- Removal of excess materials, debris
- Cleaning intersecting surfaces and joints
- Cleaning with compatible solutions and solvents such as IPA
- Picking up fine powders
- Appropriate for use with temperatures less than 350°F

### Industries

- Hard Disk Drive
- Medical Device
- Thermal Printer
- Microelectronics
- Optics
- Pharmaceuticals
- Semiconductor



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#### Physical Characteristics

Part Number	Head Material	Head Width	Head Thickness	Head Length	Handle Material	Handle Width	Handle Thickness	Handle Length	Total Length
FS740	100 PPI Polyurethane Foam	6mm (0.236")	5mm (0.197")	18mm (0.709")	Polypropylene	3.2mm (0.126")	3.2mm (0.126")	145mm (5.709")	163mm (6.417")
FS746	100 PPI Polyurethane Foam	6mm (0.236")	5mm (0.197")	18mm (0.709")	Polypropylene	3.2mm (0.126")	3.2mm (0.126")	72mm (2.835")	90mm (3.543")
FS750	100 PPI Polyurethane Foam	3.2mm (0.126")	3.2mm (0.126")	11mm (0.433")	Polypropylene	2.5mm (0.098")	2.5mm (0.098")	66mm (2.598")	77mm (3.031")
FS751	100 PPI Polyurethane Foam	3.5mm (0.138")	3.5mm (0.138")	15mm (0.591")	Polypropylene	2.4mm (0.094")	2.4mm (0.094")	51mm (2.008")	66mm (2.598")
FS742	100 PPI Polyurethane Foam	3.2mm (0.126")	2.8mm (0.110")	12mm (0.472")	Polypropylene	3mm (0.118")	3mm (0.118")	58mm (2.283")	70mm (2.756")
FS741	100 PPI Polyurethane Foam	3mm (0.118")	2.6mm (0.102")	10.5mm (0.413")	Polypropylene	2.4mm (0.094")	2.4mm (0.094")	56.8mm (2.236")	67.3mm (2.650")
FS757	100 PPI Polyurethane Foam	3.2mm (0.126")	2.6mm (0.102")	10mm (0.394")	Polypropylene	2.2mm (0.087")	2.2mm (0.087")	60mm (2.362")	70mm (2.756")



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#### Contamination Characteristics

Property	Measurement	Test Method*
<b>Nonvolatile Residue(NVR)</b>		
IPA Extractant	0.02 mg/swab	TM10: Procedure for Determining the Nonvolatile Residue (NVR) Extractable from Swabs in a Given Solvent
<b>Ions</b>		
Chloride	0.01 µg/swab	TM12: The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA)
Sulfate	<0.01 µg/swab	
Nitrate	<0.01 µg/swab	
Phosphate	<0.01 µg/swab	
Fluoride	<0.01 µg/swab	
Potassium	0.01 µg/swab	
Calcium	<0.01 µg/swab	
Sodium	0.01 µg/swab	
Magnesium	0.01 µg/swab	

\*: Test procedures available upon request.

#### ESD Characteristics

**Handle Resistivity**  $10^8 - 10^9$  Ohms/Sq (Optional)

#### Products

Part Number	Description	Packaging
<b>FS740</b>	Medium Flex Paddle Foam Swab with 5.7" Long Handle	500 Swabs/Bag; 5 Inner Bags of 100 Swabs; 30 Bags/Case
<b>FS746</b>	Medium Flex Paddle Foam Swab with 2.8" Compact Handle	500 Swabs/Bag; 5 Inner Bags of 100 Swabs; 30 Bags/Case
<b>FS750</b>	Kleentip Foam Swab	500 Swabs/Bag; 5 Inner Bags of 100 Swabs; 100 Bags/Case
<b>FS751</b>	Flex Paddle Foam Swab	500 Swabs/Bag; 5 Inner Bags of 100 Swabs; 100 Bags/Case
<b>FS742</b>	Universal Swab	500 Swabs/Bag; 5 Inner Bags of 100 Swabs; 100 Bags/Case
<b>FS741</b>	Universal Swab	500 Swabs/Bag; 5 Inner Bags of 100 Swabs; 100 Bags/Case
<b>FS757</b>	Flex Paddle Foam Swab	500 Swabs/Bag; 5 Inner Bags of 100 Swabs; 100 Bags/Case