TECHNICAL DATA SHEET

Teknipure.com

TekniSwab™
Cleanroom Foam Swabs

Teknipure's Foam Cleanroom Swabs are made in cleanroom conditions from high-grade, ultra-clean 100 ppi polyurethane foam with a thermal bond construction.

Teknipure's foam swabs are laundered using a proprietary cleaning system for additional contamination control and to minimize non-volatile residues (NVRs), ions, and other potential contaminants.

Applications:

- Precise cleaning of small areas in critical environments
- Applying and removing lubricants, adhesives, and solvents
- Absorbing liquids, scrubbing
- Removal of excess materials or debris
- Cleaning intersecting surfaces and joints
- Capturing fine powders

Features and Benefits:

- No adhesives, silicone, or amides to reduce the risk of additional contamination
- Low levels of Non-Volatile Residue (NVR) and ions
- Easily absorbs solvents and solutions, and captures particulates
- The 100% polypropylene handle prevents the introduction of additional contaminants and provides excellent chemical resistance
- Packaged in silicone-free bags
- Lot and bar-coded for traceability

Industries:

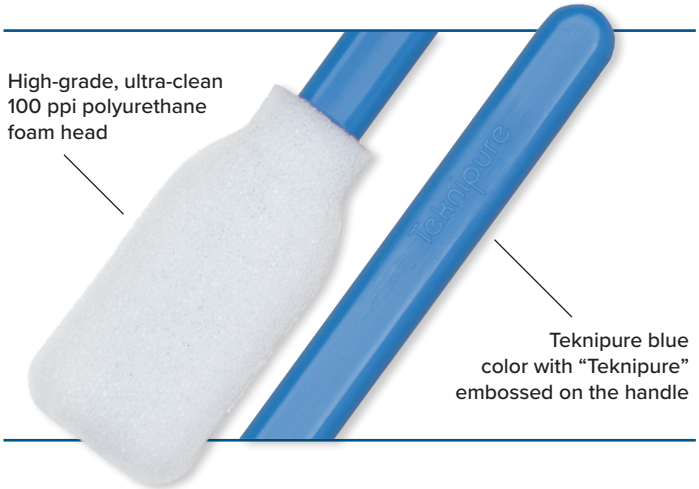
- Semiconductor / Microelectronics
- Aerospace / Defense
- Medical Device / Optics
- Pharmaceutical / Biologics
- Laboratories / Academia
- Printing / Graphics

Storage Conditions:

- Store at ambient conditions (59°F (15°C) - 86°F (30°C)

Expiration date:

- 5 years from the date of manufacture



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Cleanroom Foam Swabs

Part Number	Description	Packaging	Profile View
TKS520F	Pointed Spiral Foam Dual End Swab, 2.614"(6.64 cm) total length	100 pcs/inner bag, 5 inner bags/outer bag, 5 outer bags/case, Total 2500 swabs/case	

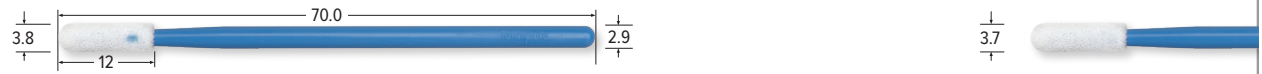
Dimensions (mm)

TKS521F	Pointed Spiral Foam Dual End Swab, 2.720"(6.91 cm) total length	100 pcs/inner bag, 5 inner bags/outer bag, 5 outer bags/case, Total 2500 swabs/case	

Dimensions (mm)

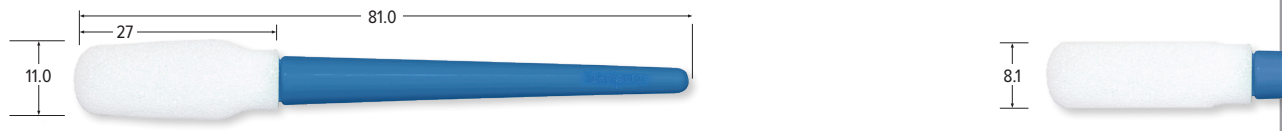
TKS522F	Small Foam Swab, 2.755"(7.00 cm) total length	100 pcs/inner bag, 5 inner bags/outer bag, 5 outer bags/case, Total 2500 swabs/case	

Dimensions (mm)



TKS523F	Medium Foam Swab with cylindrical handle, 3.189"(8.10 cm) total length	50 pcs/inner bag, 2 inner bags/outer bag, 10 outer bags/case, Total 1000 swabs/case	

Dimensions (mm)



TKS524F	Medium Foam Swab, 4.161"(10.57 cm) total length	50 pcs/inner bag, 2 inner bags/outer bag, 10 outer bags/case, Total 1000 swabs/case	

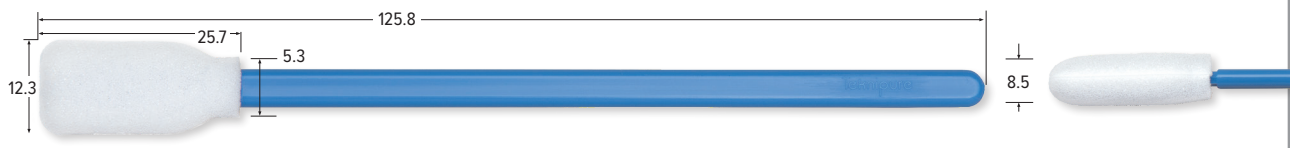
Dimensions (mm)

TKS525F	Medium Foam Swab, 4.472" (11.36 cm) total length	50 pcs/inner bag, 2 inner bags/outer bag, 10 outer bags/case, Total 1000 swabs/case	

Dimensions (mm)

TKS526F	Rectangular Head Foam Swab, 4.953"(12.58 cm) total length	50 pcs/inner bag, 2 inner bags/outer bag, 10 outer bags/case, Total 1000 swabs/case	

Dimensions (mm)



TKS527F	Rectangular Head Foam Swab, 5.020" (12.75 cm) total length	50 pcs/inner bag, 2 inner bags/outer bag, 10 outer bags/case, Total 1000 swabs/case	

Dimensions (mm)

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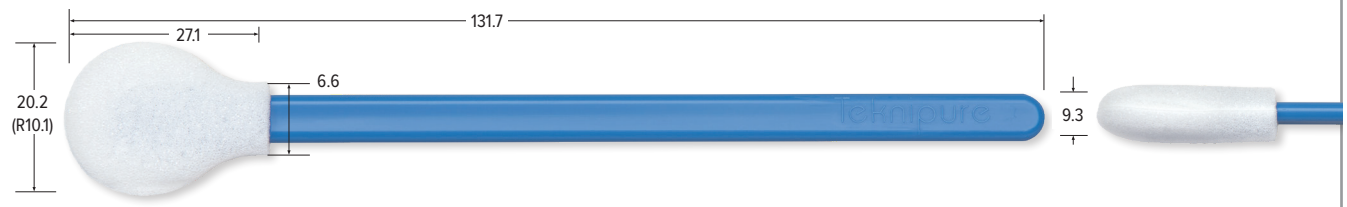
Cleanroom Foam Swabs

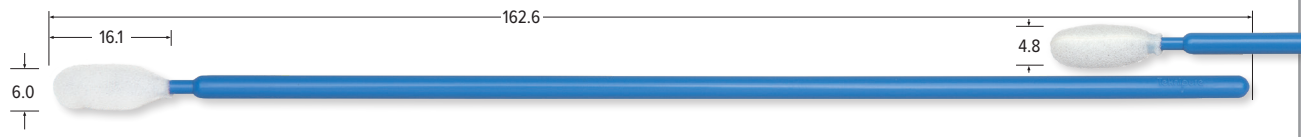
Part Number	Description	Packaging	Profile View
TKS528F	Round Head Foam Swab, 5.185" (13.17 cm) total length	50 pcs/inner bag, 2 inner bags/outer bag, 10 outer bags/case, Total 1000 swabs/case	

Dimensions (mm)



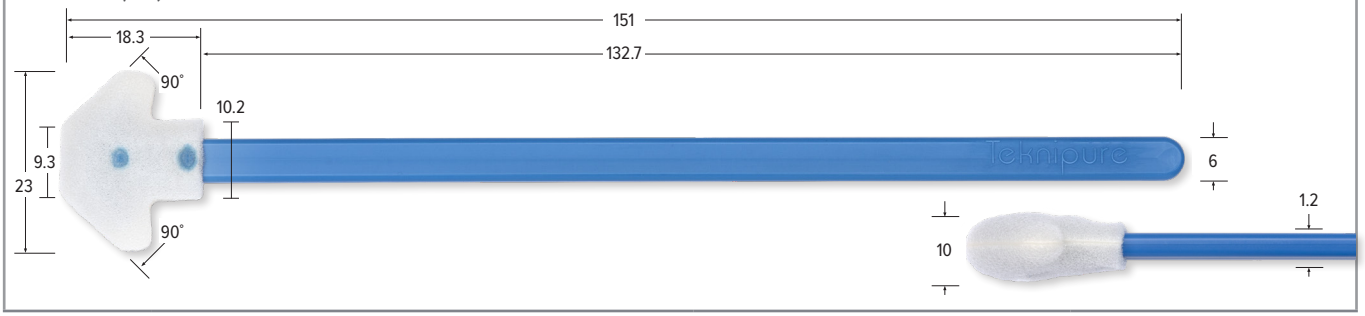
TKS529F	Medium Head Foam Swab with Long Handle, 6.402" (16.26 cm) total length	50 pcs/inner bag, 2 inner bags/outer bag, 10 outer bags/case, Total 1000 swabs/case	

Dimensions (mm)



TKS530F	Channel Foam Swab, 5.949" (15.10 cm) total length	50 pcs/inner bag, 2 inner bags/outer bag, 10 outer bags/case, Total 1000 swabs/case	

Dimensions (mm)



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Physical Properties											
	TKS520F	TKS521F	TKS522F	TKS523F	TKS524F	TKS525F	TKS526F	TKS527F	TKS528F	TKS529F	TKS530F
Head width, mm	3.5	3.4	3.8	11	5.5	6.9	12.3	14	20.2	6	23
Head length, mm	15.2	21	12	27	13.6	21	25.7	25.8	27.1	16.1	18.3
Head thickness, mm	3.5	3.4	3.7	8.1	5.1	6.1	8.5	9	9.3	4.8	10
Handle width, mm	2.4	2.5	2.9	6.2 conical	4.3	4.3	5.3	6.6	6.6	3.2	6
Handle length, mm	51.2	48.1	58	54	92.1	92.6	100.1	101.7	104.6	146.5	132.7
Handle thickness, mm	2.4	2.5	2.9	6.2	4.3	4.3	2.9	2.6	3	3.2	1.2
Total length (head & handle), mm	66.4	69.1	70	81	105.7	113.6	125.8	127.5	131.7	162.6	151
Head material	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	100 ppi Polyurethane Foam	101 ppi Polyurethane Foam
Head color	White	White	White	White	White	White	White	White	White	White	White
Head type of bonding	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal
Handle material	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Handle color	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue

Contamination Characteristics											
	TKS520F	TKS521F	TKS522F	TKS523F	TKS524F	TKS525F	TKS526F	TKS527F	TKS528F	TKS529F	TKS530F
NVR, mg/swab											
DIW extract	0.0060	0.0103	0.0077	0.0466	0.0125	0.0243	0.0529	0.0581	0.0742	0.0156	0.0742
IPA extract	0.0831	0.1442	0.1073	0.6492	0.1745	0.3380	0.7373	0.8092	1.0340	0.2179	1.0340
Ions, µg/swab*											
Calcium	0.0279	0.0484	0.0360	0.2178	0.0585	0.1134	0.2474	0.2715	0.3469	0.0731	0.3469
Chloride	0.0716	0.1242	0.0924	0.5590	0.1502	0.2910	0.6349	0.6968	0.8905	0.1877	0.8905
Fluoride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate	0.0029	0.0050	0.0037	0.0224	0.0060	0.0117	0.0254	0.0279	0.0357	0.0075	0.0357
Phosphate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfate	0.0031	0.0054	0.0040	0.0242	0.0065	0.0126	0.0275	0.0302	0.0385	0.0081	0.0385

*ND - Non-Detectable, the test results are under the test detectable limit