

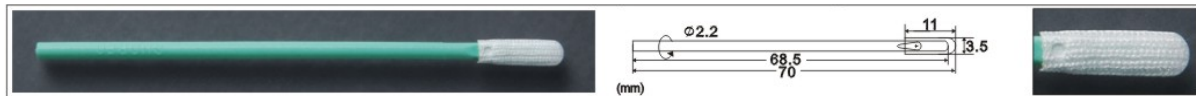


1525 N. Endeavor Pl., Suite E. Anaheim, CA 92801

Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

Product No. QL-070BPCT

Product Description 70mm Polyester Flat tip Swab



Features/Benefit

- Packing: 100 Swabs/Inner Bag, 5 Inner Bags/Pack, 40 Packs/Case.
- Handle Width: 2.25mm
- Total Swab length: 70mm
- Head material: Polyester and Microfiber
- Handle material: Polypropylene
- Type of Swab Head: Flat Tip
- Handle Color: blue
- Good absorption, ultralow nonvolatile residue and good abrasion
- Solvent resistant such as IPA and acetone.
- Low particle and fiber generation.

Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

Contamination Characteristics

Property	Typical Value	Test Method	Remarks
LPC $\geq 0.5 \mu\text{m}$	2,058 counts/tip	IEST-RP-CC004.3(2004)6.1.4&6.2	
NVR (IPA)	0.0154 mg/tip	IEST-RP-CC004.3(2004)7.1.2	
SO₄²⁻	0.019 μg /tip	IEST-RP-CC004.3(2004)7.2.2	
Cl⁻	0.014 μg /tip	IEST-RP-CC004.3(2004)7.2.2	
Silicone	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
Amine	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
DOP	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)

- Note: Data in the table represents typical analysis of the swab at time of publication.
- Q-Leap lab meets ISO 17025 Standards for testing cleanroom materials.
- Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.

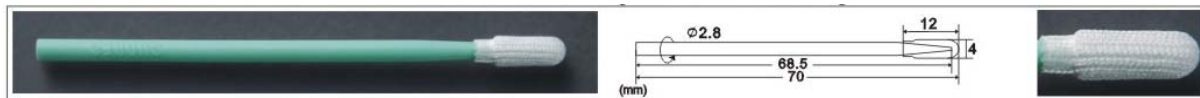


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Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

Product No. QL-070BPRT

Product Description 70mm polyester Round Tip Swab



Features/Benefit

- Packing: 100 Swabs/ Inner Bag, 5 inner Bags/ Pack, 40 Packs/ Case
- Handle Width: 2.7mm
- Total Swab length: 70mm
- Head material: Polyester
- Handle material: Polypropylene
- Type of Swab Head: Round Tip
- Handle Color: blue
- Good absorption, ultralow nonvolatile residue, good durability
- Solvent resistant such as acetone and IPA.
- Low particle and fiber generation.

Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

Contamination Characteristics

Property	Typical Value	Test Method	Remarks
LPC $\geq 0.5 \mu\text{m}$	571 counts/tip	IEST-RP-CC004.3(2004)6.1.4&6.2	
NVR (IPA)	0.0023 mg/tip	IEST-RP-CC004.3(2004)7.1.2	
SO ₄ ²⁻	0.007 μg /tip	IEST-RP-CC004.3(2004)7.2.2	
Cl ⁻	0.011 μg /tip	IEST-RP-CC004.3(2004)7.2.2	
Silicone	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
Amine	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
DOP	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)

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- Q-Leap lab meets ISO 17025 Standards for testing cleanroom materials.
- Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.

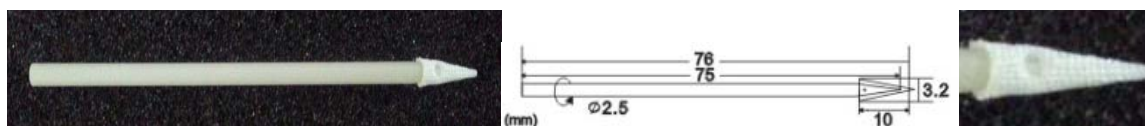


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Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

Product No. QL-076BPST

Product Description 76mm Polyester Sharp Tip Swab



Features/Benefit

- Packing: 100 Swabs/Inner Bag, 5 Inner Bags/Pack, 40 Packs/Case.
- Handle Width: 2.5mm
- Total Swab length: 76mm
- Head material: Polyester
- Handle material: Polypropylene
- Type of Swab Head: Sharp Tip
- Handle Color: blue
- Good absorption, ultralow nonvolatile residue and good abrasion
- Solvent resistant such as IPA and acetone.
- Low particle and fiber generation.

Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

Contamination Characteristics

Property	Typical Value	Test Method	Remarks
LPC $\geq 0.5 \mu\text{m}$	655 counts/tip	IENT-RP-CC004.3(2004)6.1.4&6.2	
NVR (IPA)	0.0025 mg/tip	IENT-RP-CC004.3(2004)7.1.2	
SO₄²⁻	0.009 μg /tip	IENT-RP-CC004.3(2004)7.2.2	
Cl⁻	0.017 μg /tip	IENT-RP-CC004.3(2004)7.2.2	
Silicone	ND	IENT-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
Amine	ND	IENT-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
DOP	ND	IENT-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)

- Note: Data in the table represents typical analysis of the swab at time of publication.
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- Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.



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Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

Product No. QL-093BPCT

Product Description 93mm Polyester Flat tip Swab



Features/Benefit

- Packing: 100 Swabs/Pack, 150 Packs/Case
- Handle Width: 3.1mm
- Total Swab length: 93mm
- Head material: Polyester
- Handle material: Polypropylene
- Type of Swab Head: Flat Tip
- Handle Color: blue
- Good absorption, ultralow nonvolatile residue and good abrasion
- Solvent resistant such as IPA and acetone.
- Low particle and fiber generation.

Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

Contamination Characteristics

Property	Typical Value	Test Method	Remarks
LPC $\geq 0.5 \mu\text{m}$	1,216 counts/tip	IEST-RP-CC004.3(2004)6.1.4&6.2	
NVR (IPA)	0.0079 mg/tip	IEST-RP-CC004.3(2004)7.1.2	
SO ₄ ²⁻	0.005 $\mu\text{g}/\text{tip}$	IEST-RP-CC004.3(2004)7.2.2	
Cl ⁻	0.010 $\mu\text{g}/\text{tip}$	IEST-RP-CC004.3(2004)7.2.2	
Silicone	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
Amine	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
DOP	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)

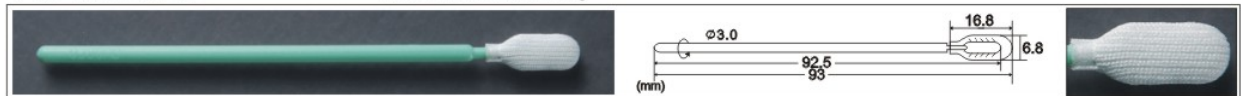
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Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

Product No. QL-093DPCT-ESD1



Product Description 93mm Polyester Flat Tip Swab

Features/Benefit

- Packing: 100 Swabs/Pack, 150 Packs/ Case
- Handle Width: 3.1mm
- Total Swab length: 93mm
- Head material: Polyester
- Handle material: Polypropylene
- Type of Swab Head: Flat Tip
- Handle Color: black
- Polyester swab has good absorption, and low nonvolatile residue.
- Solvent resistant such as IPA and acetone.
- Low particle and fiber generation.
- Anti-static property.

Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

Performance Characteristics

Property	Typical Value	Test Method	Remarks
Electrical Resistance	$10^9 \Omega$	IEST-RP-CC004.3(2004)10	

Contamination Characteristics

Property	Typical Value	Test Method	Remarks
LPC $\geq 0.5 \mu\text{m}$	1,652 counts/tip	IEST-RP-CC004.3(2004)6.1.4&6.2	
NVR (IPA)	0.0129 mg/tip	IEST-RP-CC004.3(2004)7.1.2	
SO ₄ ²⁻	0.018 $\mu\text{g}/\text{tip}$	IEST-RP-CC004.3(2004)7.2.2	
Cl ⁻	0.021 $\mu\text{g}/\text{tip}$	IEST-RP-CC004.3(2004)7.2.2	
Silicone	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
Amine	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
DOP	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)

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- Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.

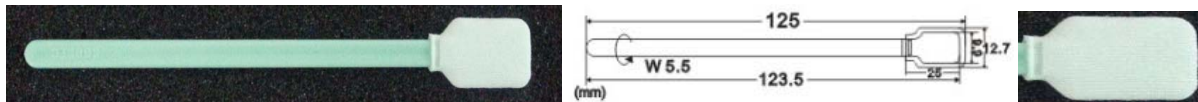


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Product No. QL-125BPCT

Product Description 125mm Polyester Flat tip Swab



Features/Benefit

- Packing: 100 Swabs/ Pack, 40 Packs/ Case
- Handle Width: 5.5mm
- Total Swab length: 125mm
- Head material: Polyester
- Handle material: Polypropylene
- Type of Swab Head: Flat Tip
- Handle Color: blue
- Good absorption, ultralow nonvolatile residue, good durability.
- Solvent resistant such as IPA and Acetone
- Low particle and fiber generation.

Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

Contamination Characteristics

Property	Typical Value	Test Method	Remarks
LPC $\geq 0.5 \mu\text{m}$	1,443 counts/tip	IEST-RP-CC004.3(2004)6.1.4&6.2	
NVR (IPA)	0.0197 mg/tip	IEST-RP-CC004.3(2004)7.1.2	
SO₄²⁻	0.018 μg /tip	IEST-RP-CC004.3(2004)7.2.2	
Cl⁻	0.015 μg /tip	IEST-RP-CC004.3(2004)7.2.2	
Silicone	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
Amine	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
DOP	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)

- Note: Data in the table represents typical analysis of the swab at time of publication.
- Q-Leap lab meets ISO 17025 Standards for testing cleanroom materials.
- Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.

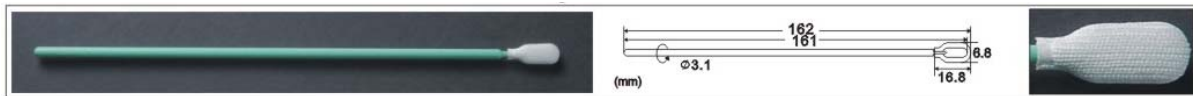


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Product No. QL-162BPCT

Product Description 162mm Polyester Flat tip Swab



Features/Benefit

- Packing: 100 Swabs/ Pack, 40 Packs/ Case
- Handle Width: 3.1mm
- Total Swab length: 162mm
- Head material: Polyester
- Handle material: Polypropylene
- Type of Swab Head: Flat Tip
- Handle Color: blue
- Good absorption, ultralow nonvolatile residue, good durability.
- Solvent resistant such as IPA and Acetone
- Low particle and fiber generation.

Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

Contamination Characteristics

Property	Typical Value	Test Method	Remarks
LPC $\geq 0.5 \mu\text{m}$	1,216 counts/tip	IEST-RP-CC004.3(2004)6.1.4&6.2	
NVR (IPA)	0.0079 mg/tip	IEST-RP-CC004.3(2004)7.1.2	
SO₄²⁻	0.009 μg /tip	IEST-RP-CC004.3(2004)7.2.2	
Cl⁻	0.005 μg /tip	IEST-RP-CC004.3(2004)7.2.2	
Silicone	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
Amine	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)
DOP	ND	IEST-RP-CC004.3(2004)7.2.1	Not Detected (<MDL)

- Note: Data in the table represents typical analysis of the swab at time of publication.
- Q-Leap lab meets ISO 17025 Standards for testing cleanroom materials.
- Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.