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marketi.COM

SWABS



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Who We Are?

Our Aim

Who We Are?

Temizoda Marketi started its business life in 1995 with İNŞEL Yapı ve Teknik Donatım Sistemleri Ltd. Sti. Specializing in cleanroom consultancy, design, implementation, documentation, and training, İNŞEL aims to meet the needs of personnel working in cleanrooms, sterile areas and critically controlled areas when it aims to provide turnkey services in the projects it implements.

İNŞEL, which has started to supply consumables in Cleanrooms, sterile areas and critically controlled areas through its representatives since 2004, has separated this department from its body in time in order not to cause confusion for our valued customers and to provide better service led to creation of Temizoda Marketi Laboratuvar Ürünleri A.Ş.

Today, as Temizoda Marketi, we are always with you, our valued customers, from product selection to training with our professional and experienced staff, while following the technology closely to provide you with the best service in the most accurate way.

Our Aim

As Temizoda Marketi, we know our valued customers from the very beginning, from the installation of your hygienic area and Cleanrooms, and we know your needs. We are aware of how important it is to use the right material in the right place, and we are always at your side to supply you with the best quality and right products with the most appropriate solutions. We supply the highest technology products for you, and we are with you wherever you need, from training to after-sales user Support.

We know that choosing the right product is never the cheapest or the most expensive, and at this point, we help you with the most optimum benefit options...

Why Temizoda Marketi?

We know you; we know your needs and we are here to help you in the best way

As Temizoda Marketi, we try to get to know you first and learn about your business, processes, and needs and offer you the most suitable solutions.

As Temizoda Marketi, we are always happy and proud to assist you with our trained and experienced staff.

We are working to give you the best and highest quality service with our experienced staff dedicated to each department.



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We are working to give you the best and highest quality service with our experienced staff dedicated to each department.

Choosing the right product is one of the most important issues in cleanrooms and critically controlled areas.

As Temizoda Marketi, we choose the most accurate and best quality products for your business in line with your demands and goals and recommend them by making them economical.

The materials used in critically controlled areas are as special and important as the areas you work in.

We know that the most suitable product for you is not always the most expensive or the cheapest, but it should be the best quality. In order to offer you the optimum solution, as Temizoda Marketi, we offer you the products you need by diversifying them with alternatives from different brands.

As Temizoda Marketi, we know the importance of the documentation of all materials you use in critically controlled areas, and we provide all documents, certificates, analysis reports, and all necessary documentation for you, that are necessary, during the installation phase, application and validation.

Temizoda Marketi does not only approach you as a product supplier. At the same time, it stands behind the products it sells and does not hesitate to take all necessary actions to eliminate it when you have any problems.

It does not sell products without the full support of the companies it represents. When there is a problem about the products, Temizoda Marketi approaches the issue as if using it himself and ensures that it is resolved as soon as possible. Thus, you will get maximum efficiency from the product you have bought.

As Temizoda Marketi, we would like to help you with all the products you need with our wide product range. Even if the product you need does not appear in our catalog, we try to find the product you are looking for with our partners abroad. Thus, we provide you with one-stop service as sole responsibility.

Temizoda Marketi does not only supply you with products, but also provides training, which is one of the greatest necessities of our time. No matter how accurate the product is in critically controlled areas, incorrect or unconscious use can cause unwanted problems. Upon request, it provides the necessary training for the products you have purchased, either by itself or by the manufacturer.

Our Representatives

We are working with well-established companies that have proven their quality all over the world in auxiliary products used in clean rooms, sterile areas, laboratories and other critically controlled areas, to provide you with the best and right product.

- Cleanroom Consumables (Wipes, Gloves, Swabs, Mats,...)



IAB Reinraum-Produkte GmbH
<http://www.iab-reinraumprodukte.de/>



Protect2Clean
www.protect2clean.com/



Pfennig Reinigungstechnik GmbH
www.pfennig-reinigungstechnik.com



ABEBA Spezialschuh-Ausstatter GmbH
www.abeba.com



Bimos - Interstuhl Büromöbel GmbH
www.bimos.com

- Cleanroom Mop Systems.

- Cleanroom Shoes

- Cleanroom Chairs



GERMANY



UK

- Cleanroom Wipes with highest quality possible

- Cleanroom consumables, disinfectants and Alcohols

- Clean & Sterile Ppe For Life Science



Berkshire Corporation
www.berkshire.com



MicronClean Ltd
www.micronclean.com



ISOfield
www.isofield.com



Univet
www.univetsafety.com/

- Cleanroom Goggles



Purus International Inc.
www.purusint.com

- Cleanroom Sticky Mats, Papers, Shoes and Glove Liners



Riverstone Resources
www.riverstone.com.my

- Cleanest Cleanroom Gloves



ITALY



CANADA



MALAYSIA



BELGIUM

- Cleanroom Garments



Alsico High Tech
www.alsicohightech.com

Our Representatives

bimos

UNIVET
OPTICAL TECHNOLOGIES

ISO field
Protecting Life Science

alsico
hightech

micronclean
QUALITY TODAY - INNOVATION TOMORROW

PURUS

Berkshire
ENGINEERED - CLEAN

PROTECT
2CLEAN

IAB
Reinraum-Produkte GmbH

PPS
PFENNIG PROFI SYSTEM

ABEBA®

➤ Cleanroom Garments

- Coveralls (Reusable/Disposable & Sterile/Non-Sterile)
- Coats (Reusable/Disposable & Sterile/Non-Sterile)
- Bonnets (Reusable/Disposable & Sterile/Non-Sterile)
- Hats (Reusable)
- Hoods (Reusable/Disposable & Sterile/Non-Sterile)
- Overshoes (Reusable/Disposable & Sterile/Non-Sterile)
- Over Boots (Reusable/Disposable & Sterile/Non-Sterile)
- Socks (Reusable/Disposable & Sterile/Non-Sterile)
- Masks (Reusable/Disposable & Sterile/Non-Sterile)
- Shoes

➤ Cleanroom Gloves

- Sterile Gloves (Latex & Nitrile)
- Non-Sterile Gloves (Latex, Nitrile, Polyethylene, Vinyl)
- Finger Gloves (Latex & Nitrile)
- Knitted Gloves

➤ Cleanroom Wipes

- Sterile Wipes
- Dry Wipes
- Pre-Saturated Wipes
- Sponge Wipes

➤ Swabs

➤ Cleanroom Mats / Floorings

- Sticky Mats
- Permanent Mats

➤ Cleanroom Stationary

- Notebooks (Rule, Grid, A4, A5)
- Papers (A3, A4, A5)
- Pens (Sterile & Non-Sterile, IPA Resist.)
- DCR Pads
- Tapes
- Rolls

➤ Cleanroom Cleaning Equipment

- Mops (Single use / Re-Usable)
- Mop Systems
- Mop Heads
- Vacuum Cleaners
- Isolators

➤ Cleanroom Disinfection Systems

- Disinfection Systems (Wet - Dry)
- Disinfectants
- Disinfection Service
- Alcohols

➤ Cleanroom Goggles

➤ Cleanroom Filters

- HVAC Filters
- Hepa Filters
- Water System Filters (RO System)
- 100% Endotoxin Removal Filters
- Cross Flow Filters

➤ Cleanroom Furniture

- Work Benches
- Racks
- Chairs
- Transport Trolleys

➤ Cleanroom Cabinets

- LF Units
- Bio-Safety Cabinets

➤ Air Shower

➤ Isolators

➤ Biological Indicators



Lab-Tips® ESD Swab-LTP70FESD

Small Knitted Polyester ESD Swab with Flexible Tip
Cleanroom laundered double layer 100% polyester knit swab

Key Attributes

- Cleanroom laundered 100% continuous filament polyester knit head
- Short polypropylene handle with a flexible paddle head
- Thermally bonded head
- Laundered and packaged in Class 10 (ISO Class 4) cleanroom
- Static dissipative polypropylene handle with thermally bonded head

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, acetone and other solvents
- Soft and non abrasive with no contaminating adhesives
- Good sorbency
- Autoclavable
- Free from Silicone, amides and DOP
- Packaged in an anti-static bag

Environmental

- Complies with RoHS

Applications

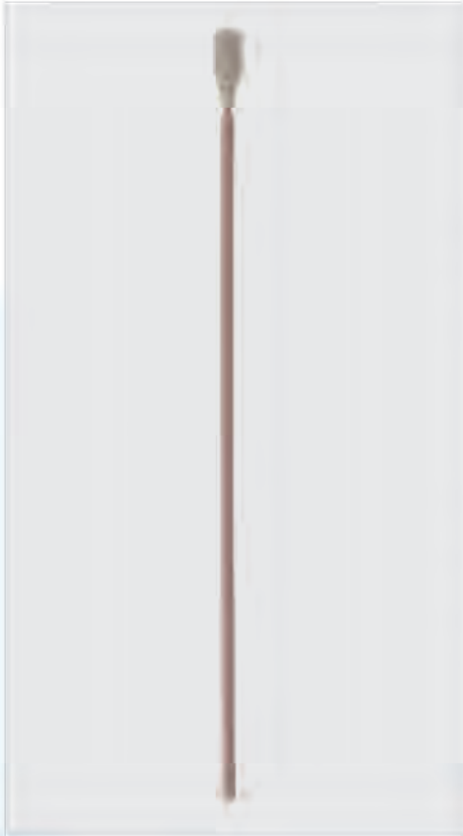
- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials
- Cleaning with solvents
- Static-sensitive applications

TECHNICAL DATA

| ATTRIBUTE | | LTP70FESD20 | TEST METHOD |
|------------------------------|-------------|-----------------------|----------------------------|
| Surface Resistance of Handle | ohms | 1.0 x 10 ⁹ | ANSI/ESD STM 11.13 |
| Volume Resistance of Handle | ohms | 1.0 x 10 ⁸ | ANSI/ESD STM 11.13 |
| Non-Volatile Residue | IPA mg/swab | 0.010 | IEST-RP-CC004-3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.058 | IEST-RP-CC004-3, Sec 7.2.2 |
| | Sulfate | 0.16 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0015 | |
| | Calcium | 0.020 | |
| | Sodium | 0.0048 | |
| | Magnesium | 0.0046 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|-------------------------------------|-------------|------|----------|--------|------------------|
| Small ESD Polyester w/ Flexible Tip | LTP70FESD20 | 70mm | 100 | 20 | 235 x 105 x 85mm |



Lab-Tips® ESD Swab-LTP1465ESD

ESD Knitted Polyester Swab with Long Handle
Cleanroom laundered double layer 100% polyester knit swab

Key Attributes

- Cleanroom laundered 100% continuous filament polyester knit head
- Long polypropylene handle with a flexible paddle head
- Laundered and packaged in ISO Class 4 [Class 10] cleanroom
- Static dissipative polypropylene handle with thermally bonded head

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance for rigorous cleaning applications
- Excellent chemical resistance
- No contaminating adhesives
- Good sorbency
- Free from Silicone, amides and DOP
- Packaged in an anti-static bag

Environmental

- Complies with RoHS and REACH requirements

Applications

- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Surface sampling
- Cleaning validation
- Static sensitive applications
- Cleaning with solvents

TECHNICAL DATA

| ATTRIBUTE | | LTP70FESD20 | TEST METHOD |
|------------------------------|-------------|-----------------------|----------------------------|
| Surface Resistance of Handle | ohms | 1.0 x 10 ⁹ | ANSI/ESD STM 11.13 |
| Volume Resistance of Handle | ohms | 1.0 x 10 ⁸ | ANSI/ESD STM 11.13 |
| Non-Volatile Residue | IPA mg/swab | 0.045 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.035 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.023 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.044 | |
| | Calcium | 0.036 | |
| | Sodium | 0.015 | |
| | Magnesium | 0.0052 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|--------------------------------|--------------|-------|----------|--------|-------------------|
| Long Handle ESD Polyester Swab | LTP1465ESD10 | 162mm | 100 | 10 | 180 x 150 x 170mm |



Lab-Tips® ESD Swab-LT070RESW

Small Open Cell Foam ESD Swab with Rigid Tip
Cleanroom laundered 100 ppi reticulated foam sock head swab

Key Attributes

- Cleanroom laundered polyurethane foam over rigid tip
- 100 ppi open cell reticulated foam
- Laundered and packaged in ISO Class 4 [Class 10] cleanroom
- Static dissipative polypropylene handle with thermally bonded head

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- Soft and non-abrasive with no contaminating adhesives
- Good sorbency and excellent solvent hold
- Free from Silicone, amides and DOP
- Packaged in an anti-static bag

Environmental

- Complies with RoHS and REACH requirements

Applications

- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials
- Static-sensitive applications

TECHNICAL DATA

| ATTRIBUTE | | LT070RESW | TEST METHOD |
|------------------------------|-------------|-----------------------|----------------------------|
| Surface Resistance of Handle | ohms | 1.0 x 10 ⁹ | ANSI/ESD STM 11.13 |
| Volume Resistance of Handle | ohms | 1.0 x 10 ⁸ | ANSI/ESD STM 11.13 |
| Non-Volatile Residue | IPA mg/swab | 0.035 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.044 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.022 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0038 | |
| | Calcium | 0.024 | |
| | Sodium | 0.081 | |
| | Magnesium | 0.0043 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|-----------------------------|-------------|------|----------|--------|------------------|
| Small ESD Foam w/ Rigid Tip | LT070RESW20 | 70mm | 100 | 20 | 235 x 105 x 85mm |



Lab-Tips® ESD Swab-LT070PESD

Small ESD Swab with Pointed Tip
Cleanroom laundered 100 ppi open cell foam sock swab

Key Attributes

- Cleanroom laundered polyurethane foam over rigid tip
- 100 ppi open cell foam
- Static dissipative polypropylene handle with thermally bonded head
- Laundered and packaged in ISO Class 4 [Class 10] cleanroom

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- Soft and non-abrasive with no contaminating adhesives
- Free from Silicone, amides and DOP
- Ridged surface for improved cleaning ability
- Packaged in an anti-static bag.

Environmental

- Complies with RoHS and REACH requirements

Applications

- Designed for the highest level of contamination control in critical processing applications
- Applying lubricants, adhesives or other liquids
- Removing excess materials
- Static-sensitive applications

TECHNICAL DATA

| ATTRIBUTE | | LT070PESD | TEST METHOD |
|------------------------------|-------------|-----------------------|----------------------------|
| Surface Resistance of Handle | ohms | 1.0 x 10 ⁹ | ANSI/ESD STM 11.13 |
| Volume Resistance of Handle | ohms | 1.0 x 10 ⁸ | ANSI/ESD STM 11.13 |
| Non-Volatile Residue | IPA mg/swab | 0.054 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.014 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.026 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0053 | |
| | Calcium | 0.029 | |
| | Sodium | 0.0039 | |
| | Magnesium | 0.0021 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|-------------------------------|-------------|------|----------|--------|-------------------|
| Small ESD Foam w/ Pointed Tip | LT070PESD20 | 70mm | 100 | 10 | 180 x 150 x 170mm |



Swab 1273-PF ESD

ESD cleaning stick/swab with a flat, semi-circular polyurethane head.

Key Attributes

- Cleanroom laundered polyurethane foam over rigid tip
- 100 ppi open cell foam
- Static dissipative polypropylene handle with thermally bonded head
- Laundered and packaged in ISO Class 4 (Class 10) cleanroom

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- Soft and non-abrasive with no contaminating adhesives
- Free from Silicone, amides and DOP
- Ridged surface for improved cleaning ability
- Packaged in an anti-static bag.

Environmental

- Complies with RoHS and REACH requirements

Applications

- Designed for the highest level of contamination control in critical processing applications
- Applying lubricants, adhesives or other liquids
- Removing excess materials
- Static-sensitive applications

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|--|--|
| Dimensions | Simply Small paddle shape, Ø 4.0 x 14.2 mm | Ø 2.3 x 67.5 mm |
| Material | Statically dissipative foam | Stat-Rite® statically dissipative polypropylene, solid |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|------------------|-------------|--------|----------|--------|
| Swab 1273-PF ESD | 360051 | 68,0mm | 50 | 20 |



PU-Swab PU3924 ESD

- The antistatic cleanroom swab is made of compressed, open-pored 100 ppi (Z) polyurethane foam, which is free of organic impurities.
- The foam is thermally bonded to the handle, which avoids the use of contaminating adhesives or coatings.
- The foam, washed and packaged in an ISO Class 5 cleanroom has a low particle and ion content.
- It has excellent compatibility with most common solvents, including acetone, as well as excellent Absorbency and solvent absorption capacity.
- The foam head is compressive and has good strength.
- The pointed, non-abrasive foam head is designed for cleaning small, slotted areas.
- The swab handle is ESD-safe and made of polypropylene

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|--|-----------------------------|
| Dimensions | Simply pointed \varnothing 3.2 x 3.2 x 10 mm | \varnothing 2.5 x 66.0 mm |
| Material | 100 ppi (Z) Polyurethane foam (compressed) | Polypropylen |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|--------------------|-------------|---------|----------|--------|
| PU-Swab PU3924 ESD | 360924 | 76,0 mm | 500 | 50 |



Lab-Tips® - LTC125

Large Closed Cell Foam Swab
100 ppi closed cell foam sock head swab

Key Attributes

- Polyurethane foam over rigid paddle
- Closed cell structure
- Thermally bonded head
- Laundered and packaged in Class 10 (ISO Class 4) cleanroom

Benefits

- Low particles and fibers
- Good chemical resistance
- Excellent strength
- No contaminating adhesives
- Free from Silicone, amides and DOP

Environmental

- Complies with RoHS and REACH requirements

Applications

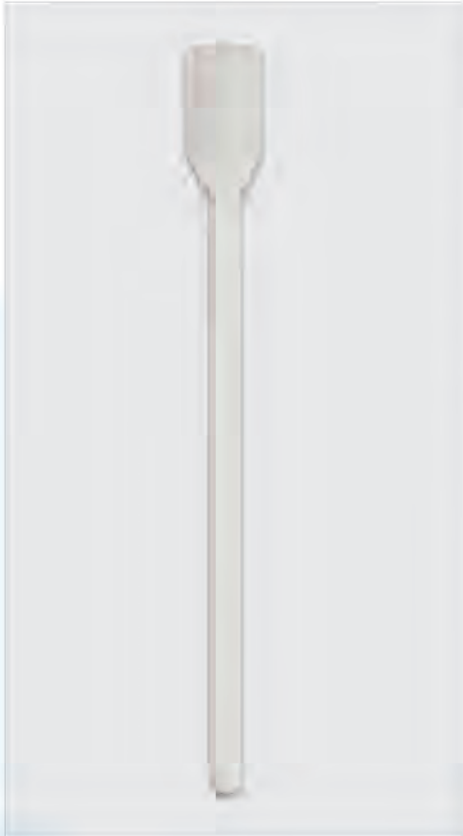
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials
- Scrubbing applications

TECHNICAL DATA

| ATTRIBUTE | | LTC125 | TEST METHOD |
|-----------------------------|-------------|--------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 1.4 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.028 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.023 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.014 | |
| | Calcium | 0.11 | |
| | Sodium | 0.0060 | |
| | Magnesium | ND* | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|------------------------|-------------|-------|----------|--------|-------------------|
| Large Closed Cell Foam | LTC125.5 | 125mm | 100 | 5 | 220 x 160 x 105mm |

**Lab-Tips®- LT000125**

Large Open Cell Foam Swab with Rigid Tip

Key Attributes

- Polyurethane foam over rigid core
- Compressed, 100 ppi Polyurethane foam
- Thermally bonded head
- Laundered and packaged in Class 10 [ISO Class 4] cleanroom

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- Soft and non-abrasive with no contaminating adhesives
- Good sorbency

Applications

- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|-------------------------|-------------|-------|----------|--------|-------------------|
| Small Foam w/ Rigid Tip | LT000125.10 | 127mm | 100 | 10 | 330 x 330 x 152mm |



Lab-Tips®- LT01465

Long Handle Open Cell Foam Swab
Cleanroom laundered 100 ppi reticulated foam sock head swab

Key Attributes

- Cleanroom laundered polyurethane foam over flexible paddle head
- 100 ppi open cell foam
- Thermally bonded head
- Laundered and packaged in Class 10 [ISO Class 4] cleanroom

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- No contaminating adhesives
- Good sorbency and excellent solvent hold
- Free from Silicone, Amides and DOP

Environmental

- Complies with RoHS and REACH requirements

Applications

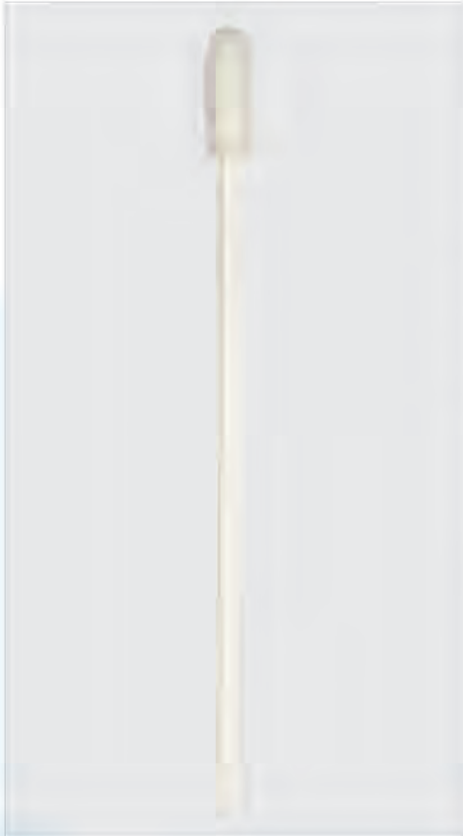
- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials

TECHNICAL DATA

| ATTRIBUTE | | LT01465 | TEST METHOD |
|-----------------------------|-------------|---------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.094 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.023 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.024 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0033 | |
| | Calcium | 0.022 | |
| | Sodium | 0.050 | |
| | Magnesium | 0.0019 | |

ORDER INFORMATION

| PRODUCT | ITEM NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|------------------|-------------|-------|----------|--------|-------------------|
| Long Handle Foam | LT01465.10 | 162mm | 100 | 10 | 180 x 150 x 170mm |



Lab-Tips®- LTA03163

Small Open Cell Foam Swab with Rigid Tip

Key Attributes

- Compressed, 100 ppi Polyurethane foam
- Thermally bonded head
- Polyurethane foam over rigid core
- Laundered and packaged in Class 10 [ISO Class 4] cleanroom

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- Soft and non-abrasive with no contaminating adhesives
- Good sorbency

Applications

- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|-------------------------|-------------|------|----------|--------|-------------------|
| Small Foam w/ Rigid Tip | LTA03163.10 | 76mm | 100 | 10 | 330 x 330 x 152mm |



Lab-Tips®- LTLab-Tips®- LT070F

Small Open Cell Foam Swab with Flexible Tip
Cleanroom laundered 100 ppi reticulated foam sock head swab

Key Attributes

- Cleanroom laundered polyurethane foam over rigid core
- Compressed, 100 ppi open cell reticulated foam
- Thermally bonded head
- Laundered and packaged in Class 10 (ISO Class 4) cleanroom

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- Soft and non-abrasive with no contaminating adhesives
- Good sorbency
- Free from Silicone, Amides and DOP

Environmental

- Complies with RoHS and REACH requirements

Applications

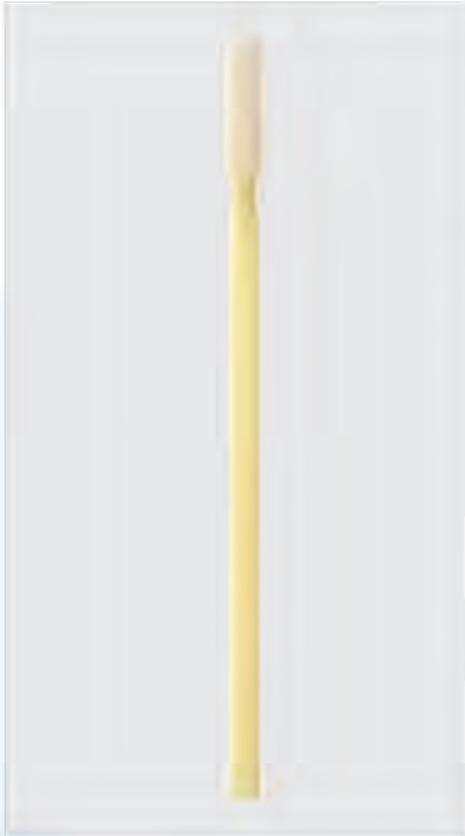
- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials

TECHNICAL DATA

| ATTRIBUTE | | LT070F | TEST METHOD |
|-----------------------------|-------------|--------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.032 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | ND* | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.0075 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0055 | |
| | Calcium | 0.061 | |
| | Sodium | 0.0089 | |
| | Magnesium | ND* | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|----------------------------|-------------|------|----------|--------|------------------|
| Small Foam w/ Flexible Tip | LT070F.20 | 70mm | 100 | 20 | 235 x 105 x 85mm |



Lab-Tips®- LT070R

Small Open Cell Foam Swab with Rigid Tip
Cleanroom laundered 100 ppi reticulated foam sock head swab

Key Attributes

- Cleanroom laundered polyurethane foam over rigid core
- 100 ppi open cell reticulated foam
- Thermally bonded head
- Laundered and packaged in Class 10 [ISO Class 4] cleanroom

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- Soft and non-abrasive with no contaminating adhesives
- Good sorbency and excellent solvent hold
- Free from Silicone, amides and DOP

Environmental

- Complies with RoHS 2002/05 and REACH requirements

Applications

- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials

TECHNICAL DATA

| ATTRIBUTE | | LT070R | TEST METHOD |
|-------------------------------------|-------------|--------|----------------------------|
| Non-Volatile Residue Ions (µg/swab) | IPA mg/swab | 0.035 | IEST-RP.CC004.3, Sec 7.1.2 |
| | Chloride | 0.044 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.022 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0038 | |
| | Calcium | 0.024 | |
| | Sodium | 0.081 | |
| | Magnesium | 0.0043 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|-------------------------|-------------|------|----------|--------|------------------|
| Small Foam w/ Rigid Tip | LT070R.20 | 70mm | 100 | 20 | 235 x 105 x 85mm |



Lab-Tips® -LT070P

Small Open Cell Foam Swab with Pointed Tip
Cleanroom laundered 100 ppi reticulated foam sock swab

Key Attributes

- Cleanroom laundered polyurethane foam over rigid tip
- 100 ppi open cell foam
- Polypropylene handle with thermally bonded head
- Laundered and packaged in Class 10 [ISO Class 4] cleanroom

Benefits

- Low particles, fibers, ions and extractables
- Good chemical resistance
- Soft and non-abrasive with no contaminating adhesives
- Free from Silicone, amides and DOP
- Ridged surface for improved cleaning ability

Environmental

- Complies with RoHS and REACH requirements

Applications

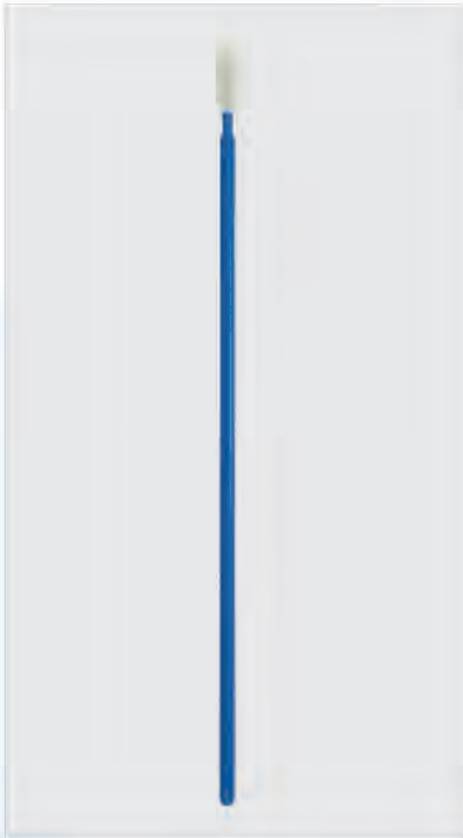
- Designed for the highest level of contamination control in critical processing applications
- Applying lubricants, adhesives or other liquids
- Removing excess materials

TECHNICAL DATA

| ATTRIBUTE | | LT070P | TEST METHOD |
|----------------------|-------------|--------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.054 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.014 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.026 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0053 | |
| | Calcium | 0.029 | |
| | Sodium | 0.0039 | |
| | Magnesium | 0.0021 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|---------------------------|-------------|------|----------|--------|------------------|
| Small Foam w/ Pointed Tip | LT070P.20 | 70mm | 100 | 20 | 235 x 105 x 85mm |



Swab 1876-PFB

This swab with foam tip is made with a net-shaped 100ppi foam in medical quality. It is firmly bonded to a blue polypropylene shaft with thermoplastic adhesive.

- Lint-free and residue-free
- Soft, non-abrasive tip
- Can be used with IPA and DI water or dry
- Flexible Paddelspitze
- ISO 9001:2008 compatible
- FDA GMP-kompatibel
- Application of adhesives or other solutions
- Removal of dirt, impurities, fluxes or resins
- General cleaning

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|-------------------------------------|------------------|
| Dimensions | Single spatula shaped 4,8 x 15,1 mm | Ø 3.1 x 150.4 mm |
| Material | Soft Foam tip | Polypropylene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|---------------|-------------|----------|----------|--------|
| Swab 1876-PFB | 360009 | 152,4 mm | 50 | 20 |



Compressed Mini Foam Swab PU3922 PU/PP

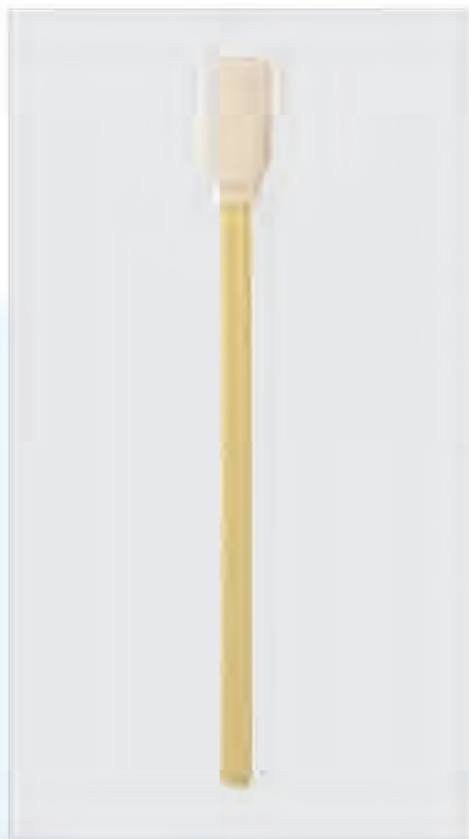
- Made of compressed, 100 ppi open-cell polyurethane foam that is free of organic contaminants such as silicone, amides or phthalate esters.
- The foam is thermally bonded to the handle, eliminating the need for contaminating adhesives or coatings.
- The foam has a low particle and ion content.
- It has excellent compatibility with most common solvents, including acetone, as well as excellent absorbency and solvent resistance.
- The foam head is compressed and has good strength.
- A compact, rigid handle and a round, internal head core ensure a secure hold.
- The handle is compact and does not contribute to particulate or organic impurities.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|-------------------------------------|-----------------|
| Dimensions | Simply rounded 3.6 x 3.5 x 12 mm | Ø 3.0 x 56.0 mm |
| Material | 100 ppi open-cell polyurethane foam | Polypropylen |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|--|-------------|---------|----------|--------|
| Compressed Mini Foam Swab PU3922 PU/PP | 360922 | 68,0 mm | 500 | 50 |



Lab-Tips® - LTP125

Large Knitted Polyester Swab
Cleanroom laundered double layer 100% polyester knit swab

Key Attributes

- Cleanroom laundered 100% continuous filament polyester knit head
- Long polypropylene handle with a rigid paddle head
- Thermally bonded head
- Laundered and packaged in Class 10 {ISO Class 4} cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance while soft and non-abrasive
- Excellent chemical resistance
- No contaminating adhesives and good sorbency
- Autoclavable
- Free from Silicone, Amides and DOP

Environmental

- Complies with RoHS and REACH requirements

Applications

- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment such as print heads
- Sampling surfaces for cleaning validation
- Applying lubricants and other liquids
- Removing excess materials
- Cleaning with solvents

TECHNICAL DATA

| ATTRIBUTE | | LTP125 | TEST METHOD |
|----------------------|----------------|--------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.075 | IEST-RP.CC004.3, Sec 7.1.2 |
| | Ions (µg/swab) | | |
| | Chloride | 0.11 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.061 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.010 | |
| | Calcium | 0.082 | |
| | Sodium | 0.032 | |
| | Magnesium | 0.011 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|-------------------------|-------------|-------|----------|--------|-------------------|
| Large Knitted Polyester | LTP125.5 | 125mm | 100 | 5 | 220 x 160 X 105mm |



Lab-Tips® - LTP1465

Long Handle Knitted Polyester Swab
Cleanroom laundered double layer 100% polyester knit swab

Key Attributes

- Cleanroom laundered 100% continuous filament polyester knit head
- Long polypropylene handle with a flexible paddle head
- Thermally bonded head
- Laundered and packaged in Class 10 (ISO Class 4) cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance for rigorous cleaning applications
- Excellent chemical resistance
- No contaminating adhesives
- Good sorbency
- Autoclavable
- Free from Silicone, amides and DOP

Environmental

- Complies with RoHS and REACH requirements

Applications

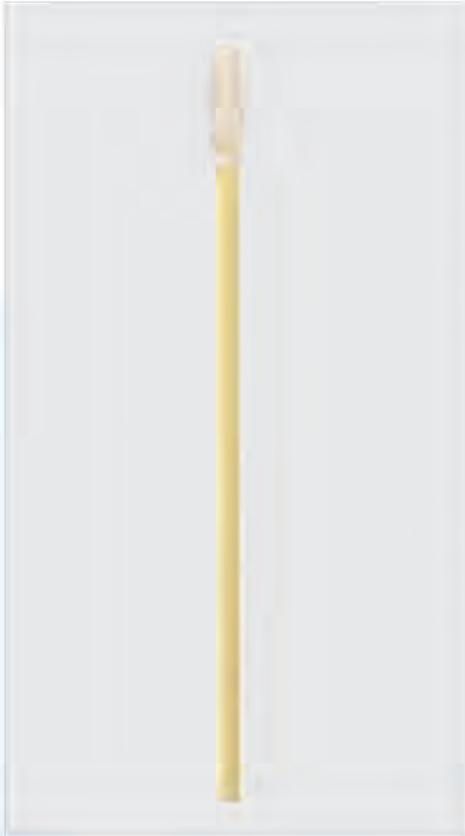
- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Surface sampling
- Cleaning validation
- Cleaning with solvents

TECHNICAL DATA

| ATTRIBUTE | | LTP1465 | TEST METHOD |
|----------------------|-------------|---------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.045 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.035 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.023 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.044 | |
| | Calcium | 0.036 | |
| | Sodium | 0.015 | |
| | Magnesium | 0.0052 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|----------------------------|-------------|-------|----------|--------|-------------------|
| Long Handle Knit Polyester | LTP1465.10 | 162mm | 100 | 10 | 180 x 150 x 170mm |



Lab-Tips® - LTP70F

Small Knitted Polyester Swab with Flexible Tip
Cleanroom laundered double layer 100% polyester knit swab

Key Attributes

- Cleanroom laundered 100% continuous filament polyester knit head
- Short polypropylene handle with a flexible paddle head
- Thermally bonded head
- Laundered and packaged in Class 10 {ISO Class 4 } cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, acetone and other solvents
- Soft and non abrasive with no contaminating adhesives
- Good sorbency
- Autoclavable
- Free from Silicone, amides and DOP

Environmental

- Complies with RoHS and REACH requirements

Applications

- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials
- Cleaning with solvents

TECHNICAL DATA

| ATTRIBUTE | | LTP70F | TEST METHOD |
|----------------------|-------------|--------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.010 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.058 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.16 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0015 | |
| | Calcium | 0.020 | |
| | Sodium | 0.0048 | |
| | Magnesium | 0.0046 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|---------------------------------|-------------|------|----------|--------|------------------|
| Small Polyester w/ Flexible Tip | LTP70F.20 | 70mm | 100 | 20 | 235 x 105 x 85mm |



Lab-Tips®- LTP70R

Small Knitted Polyester Swab with Rigid Tip
Cleanroom laundered double layer 100% polyester knit swab

Key Attributes

- Cleanroom laundered 100% continuous filament polyester knit head
- Short polypropylene handle with a rigid head
- Thermally bonded head
- Laundered and packaged in Class 10 [ISO Class 4] cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, acetone and other solvents
- Soft and non-abrasive with no contaminating adhesives
- Good sorbency
- Autoclavable
- Free from Silicone, amides and DOP

Environmental

- Complies with RoHS 2002/05 and REACH requirements

Applications

- Designed for the highest level of contamination control in critical processing applications
- Cleaning of sensitive equipment
- Cleaning with solvents
- Applying lubricants and other liquids
- Removing excess materials

TECHNICAL DATA

| ATTRIBUTE | | LTP70R | TEST METHOD |
|----------------------|-------------|--------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.0075 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.028 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.023 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0063 | |
| | Calcium | 0.0039 | |
| | Sodium | 0.0064 | |
| | Magnesium | 0.0043 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|-----------------------------|-------------|------|----------|--------|------------------|
| Small Polyester w/Rigid Tip | LTP70R.20 | 70mm | 100 | 20 | 235 x 105 x 85mm |



Lab-Tips® - LTP125S

Large Sampling Swab

Cleanroom laundered double layer 100% polyester knit swab

Key Attributes

- Cleanroom laundered 100% continuous filament 2-ply polyester knit head
- Long polypropylene handle with a large semi-flexible paddle head
- Thermally bonded head
- Grooves on handle for easy snapping
- Laundered and packaged in Class 10 [ISO Class 4] cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- Excellent chemical resistance
- High abrasion resistance while soft and non-abrasive
- No contaminating adhesives and good sorbency
- Autoclavable
- Free from Silicone, Amides and DOP

Applications

- Sampling surfaces for cleaning validation in many industries

TECHNICAL DATA

| ATTRIBUTE | | LTP125S | TEST METHOD |
|----------------------|----------------|---------|---------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.075 | EST-RP-CC004.4 Sec 8.1.2 |
| | Ions (µg/swab) | | IEST-RP-CC004.4 Sec 8.2.2 |
| | Chloride | 0.11 | |
| | Sulfate | 0.061 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.010 | |
| | Calcium | 0.082 | |
| | Sodium | 0.032 | |
| | Magnesium | 0.011 | |

ORDER INFORMATION

| PRODUCT | ITEM NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------------------|-------------|-------|----------|--------|
| Large Knitted Polyester Sampling | LTP125S.25 | 125mm | 20 | 25 |



Polyester Swab PS3605

- Good wear resistance
- Can be used with IPA, acetone or other solvents
- Chemically resistant
- Low non-volatile residues
- Low particle formation
- Lint-free
- Application of adhesives or other liquids
- Removal of residues and particles

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|-------------------|-------------------------------------|--------------------|
| Dimensions | Single spatula shaped 4,8 x 15,1 mm | Ø 3.05 x 149.23 mm |
| Material | Washed two-layer knitted polyester | Polypropylene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|-----------------------|-------------|----------|----------|--------|
| Polyester Swab PS3605 | 360021 | 152.4 mm | 100 | 10 |



Swab PS 3912

The semi-circular flat head of the cleaning stick/Swab PS 3912 is made of two-layer woven polyester and is thermally bonded to the handle - without the use of contaminating adhesives. The head is particularly suitable for cleaning small, slotted and recessed areas.

- Free of silicone, amide and phthalates
- Low non-volatile residues
- Low particle and ion content
- Good absorbency
- Compatible with common solvents
- Without adhesives or coatings
- Recommendation: ISO 4

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|--|-----------------|
| Dimensions | Simply semi-circular 4,0 x 2,5 x 11,0 mm | Ø 2.3 x 59.0 mm |
| Material | Polyester | Polypropylen |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|--------------|-------------|-------|----------|--------|
| Swab PS 3912 | 360912 | 70 mm | 500 | 50 |



Swab PS3910

- The PS3910 Polyester Swab is designed for cleaning small, slotted and recessed areas.
- Superior cleaning is controlled and assisted with a flexible handle.
- Constructed from a two-layer knit polyester that is free from organic impurities such as silicone, amides or phthalates.
- The polyester layers are thermally bonded to the handle, eliminating the use of contaminating adhesives or coatings.
- Washed and packaged in an ISO Class 5 clean room, the polyester has a low particle and ion content.
- It has excellent compatibility with most common solvents including acetone as well as excellent absorbency.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|-------------------|---|------------------|
| Dimensions | Double Layer Knitted Polyester 6.0 x 3.0 x 17.0mm | Ø 3.2 x 145.0 mm |
| Material | Double Layer Knitted Polyester | Polypropylene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|-------------|-------------|----------|----------|--------|
| Swab PS3910 | 360054 | 162.0 mm | 500 | 20 |



Swab PS3911

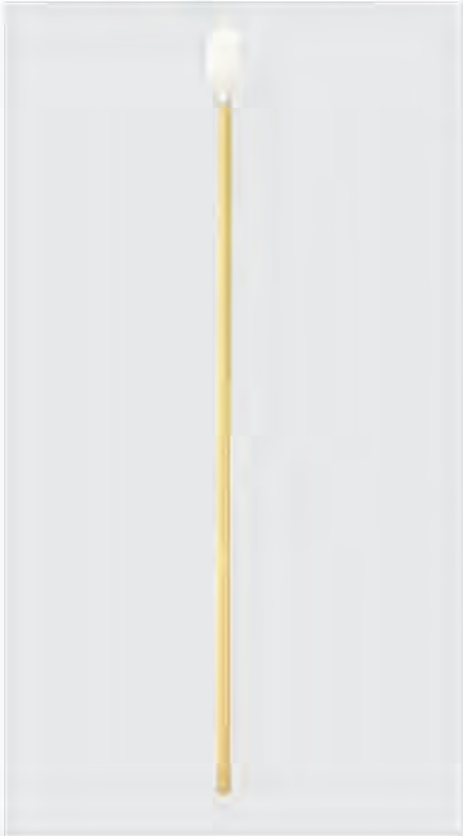
- Anti-Static Cleanroom Swab with Rectangular Polyester Head.
- The double-knit cloth is thermally bonded to the handle eliminating the use of contaminating adhesives or coatings.
- This swab is free of silicone, amides and phthalates.
- The flexible head is lint free and removes residue/particles without scratching the surface.
- The material has very good compatibility with various solvents and is ideal for working with acetone.
- Washed and packed according to clean room class 10 / ISO 4.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|---|------------------|
| Dimensions | rectangular polyester 13.0 x 4.0 x 25.0mm | Ø 5.2 x 103.0 mm |
| Material | polyester | polypropylene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|-------------|-------------|-----------|----------|--------|
| Swab PS3911 | 360911 | 152.908mm | 100 | 50 |



Lab-Tips® - LTN1465

Long Handle Nonwoven Polyester Swab
100% hydroentangled polyester long handle swab

Key Attributes

- Double layer, hydro-entangled polyester tip over flexible paddle
- Soft and nonabrasive
- Thermally bonded head
- Polypropylene handle
- Packaged in an ISO class 4 (Class 10) cleanroom

Benefits

- Low particle generation
- Low non volatile residue
- Excellent chemical resistance
- No contaminating adhesives
- Good sorbency
- Free from Silicone, amides and DOP

Environmental

- Complies with RoHS and REACH requirements

Applications

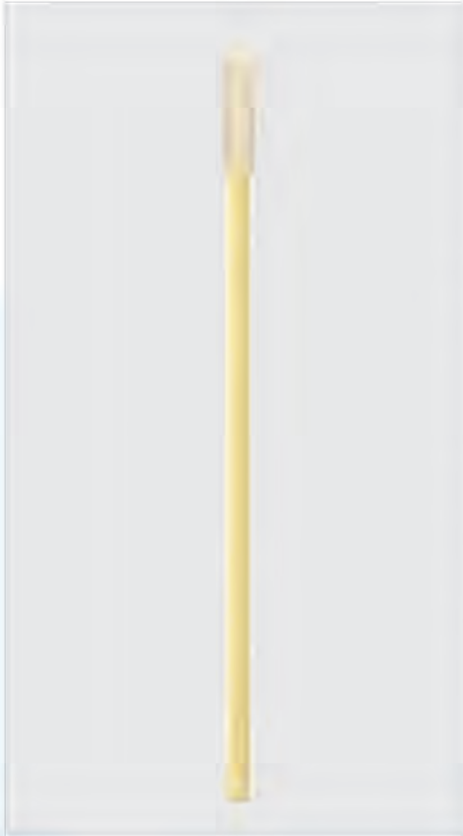
- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Cleaning validation
- Surface sampling
- Cleaning with solvent

TECHNICAL DATA

| ATTRIBUTE | | LTN1465 | TEST METHOD |
|-----------------------------|-------------|---------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.060 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.10 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.077 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.0088 | |
| | Calcium | 0.028 | |
| | Sodium | 0.027 | |
| | Magnesium | 0.0057 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|----------------------|-------------|-------|----------|--------|-------------------|
| Long Handle Nonwoven | LTN1465.10 | 162mm | 100 | 10 | 180 x 150 x 170mm |



Lab-Tips®- LTN70F

Small Nonwoven Polyester Swab with Flexible Tip
100% hydroentangled polyester swab

Key Attributes

- Double layer, hydroentangled polyester over flexible paddle
- Soft and non abrasive
- Thermally bonded head
- Packaged in an ISO class 4 (Class 10) cleanroom

Benefits

- Low particle generation
- Low non volatile residue
- Excellent chemical resistance
- No contaminating adhesives
- Good sorbency
- Free from Silicone, amides and DOP

Environmental

- Complies with RoHS 2002/05 and REACH requirements

Applications

- Cleaning of sensitive equipment
- Applying lubricants and other liquids
- Removing excess materials

TECHNICAL DATA

| ATTRIBUTE | | LTN70F | TEST METHOD |
|----------------------|-------------|--------|----------------------------|
| Non-Volatile Residue | IPA mg/swab | 0.018 | IEST-RP.CC004.3, Sec 7.1.2 |
| Ions (µg/swab) | Chloride | 0.19 | IEST-RP.CC004.3, Sec 7.2.2 |
| | Sulfate | 0.049 | |
| | Nitrate | ND* | |
| | Phosphate | ND* | |
| | Fluoride | ND* | |
| | Potassium | 0.055 | |
| | Calcium | 0.13 | |
| | Sodium | 0.090 | |
| | Magnesium | 0.068 | |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS | CASE SIZE |
|---------------|-------------|------|----------|--------|------------------|
| Nonwoven swab | LTN70F.20 | 70mm | 100 | 20 | 235 x 105 x 85mm |



Swab PU3923

- Made of compressed, closed-cell polyurethane foam with 100 ppi, which is free of organic impurities such as silicone, amides or phthalate esters.
- The foam is thermally bonded to the handle, allowing the use of contaminant adhesives or coatings are avoided.
- Has excellent compatibility with common solvents including acetone, as well as excellent absorbency and solvent holding capacity.
- The rectangular head is a large universal scraper and has excellent durability and padding.
- A stiff inner paddle provides a firm hold.
- The stem is made of polypropylene.
- The stem is compact and does not contribute to particles or organic contamination.
- Free of silicone, amide and DOP
- Low non-volatile residue
- Low particles and ion content

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|---|----------------|
| Dimensions | Simply rectangular 16.0 x 9.2 x 25.5 mm | 6,7 x 104,8 mm |
| Material | 100 ppi polyurethane | Polypropylen |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|-------------|-------------|----------|----------|--------|
| Swab PU3923 | 360923 | 130,3 mm | 50 | 50 |



Swab 25-1506 1PF100, PUPS, 1-sided, sterile

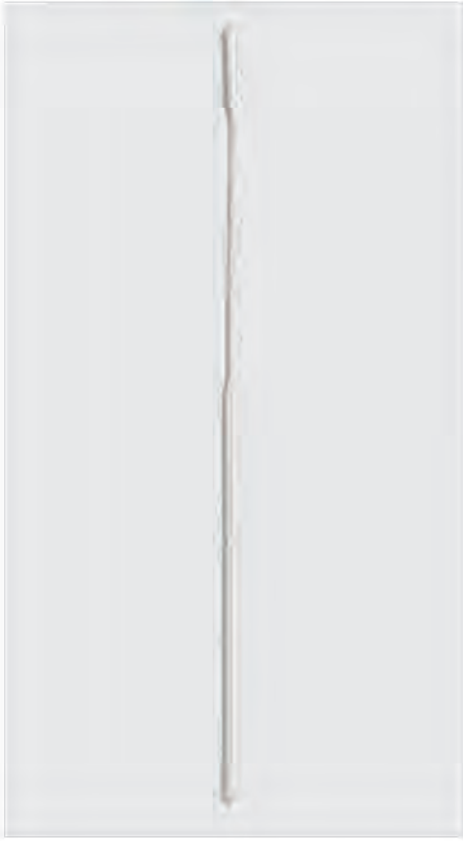
- This special applicator is made of 100ppi high quality polyurethane foam.
- It is securely glued to a hollow polystyrene handle that breaks when bent 90 degrees.
- Medical quality
- Foam has excellent collection and separation properties
- Soft foam tip for patient comfort
- Can be used dry or with media
- Cheek swab
- For nasal and anterior nostrils sampling for diagnostic testing
- For general sampling for testing
- Used in pediatrics, ophthalmology, veterinary medicine and oropharyngeal applications
- Component of rapid diagnostic kits

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|------------------|-----------------|
| Dimensions | 4.775x 16.002 mm | 2.54x 149.225mm |
| Material | polyurethane | polystyrene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|--|-------------|---------|----------|--------|
| Swab 25-1506 1PF100, PU/PS, 1-sided, sterile | 360053 | 151.867 | 1 | 100x10 |



Swab PureFlock Ultra 25-3317-U, PU/PS, 1-sided, (sterile)

- An ideal choice for flock swabs with excellent absorption and elution of samples when the high absorbency of HydraFlock is not required.
- The high purity properties of PurFlock Ultra make it an ideal swab for various rapid diagnostic tests.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|-----------------|----------------|
| Dimensions | 3.556x 16.76 mm | 2.54x 152.14mm |
| Material | polyurethane | polystyrene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|---|-------------|---------|----------|--------|
| Swab PureFlock Ultra 25-3317-U, PU/PS, 1-sided, sterile | 360055 | 151.867 | 1 | 50x10 |



Microfiber-Swab PS3900

- The Mini Swab consists of a single-layer microfiber that is free of organic contaminants such as silicone, amides or phthalate esters.
- The fabric is thermally bonded to the handle, which avoids the use of contaminating adhesive or coatings.
- The polyester, which is washed and packaged in an ISO Class 5 cleanroom, has a lowparticle and ion content.
- It has excellent compatibility with most common solvents, including acetone, as well as excellent absorbency and solvent absorption capacity.
- The head is designed for cleaning small, slotted and recessed areas.
- The excellent cleaning is controlled and supported by a flexible paddle.
- Designed for general cleaning, the swabs are the ideal swabs for cleaning componentsor parts.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|------------------------------------|-----------------|
| Dimensions | Simply rounded 2.2 x 1.2 x 10.0 mm | Ø 2.2 x 62.0 mm |
| Material | Simple Knitted Microfiber | Polypropylen |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|-------------|-------------|---------|----------|--------|
| Swab PS3900 | 360900 | 72,0 mm | 500 | 50 |



Optical fiber Swab PS 3901

- Constructed from Double-layer knitted microfiber and polyester.
- The inside layer is polyester, the outside layer is microfiber.
- Both is free from organic contaminants such as silicone, amides or phthalate esters.
- The cloth is thermally bonded to the handle, thus, eliminating the use of contaminating adhesive or coatings.
- It has excellent compatibility with most common solvents including acetone as well as excellent absorbency and solvent-holding capacity.
- The head is designed for cleaning small, slotted and recessed areas. The excellent cleaning is controlled and supported by a flexible Paddle.
- Free from silicone, amide and DOP
- Low non-volatile residue
- Low in both particles and ion content
- Good absorbenc

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|-------------------|---|------------------|
| Dimensions | Single rectangular 13.0 x 4.0 x 24.0 mm | Ø 6.6 x 105.0 mm |
| Material | Double Layer Microfiber and Polyester | Polypropylen |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------------|-------------|----------|----------|--------|
| Optical fiber Swab PS 3901 | 360901 | 129.0 mm | 100 | 50 |



Swab Huby-340 BB-003

- Fine handle made of paper, white, with double, hard, pointed tree wool swab.
- Very absorbent with excellent water absorption and easy to dispose of.
- Double-tip cotton swabs with sharp tips are made of high-quality, long-staple cotton, tightly wrapped at both ends of the high-strength paper handle.
- The high-quality cotton fibres offer an excellent inclusion and retention capacity of particles as well as an exceptional absorbency of most solvents and solutions.
- The swabs are suitable for the most common solvents, including isopropyl alcohol and acetone, absorb and are ideal for use with water-based solutions.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|--|-----------------------------|
| Dimensions | Double sharp \varnothing 3.0 x 11.0 mm | \varnothing 1.5 x 73.0 mm |
| Material | Cotton | Paper |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------|-------------|-------------------|----------|--------|
| Swab Huby-340 BB-003 | 360011 | 79.0 \pm 1.0 mm | 25 | 100x20 |



Swab Huby-340 BB-002

- BB-002 is slimmer than BB-001.
- The head is a 3-inch baby type cotton swab.
- The head is spherical, lint-less and highly absorbent with excellent water absorption and is convenient to use a solvent soaked.
- It is used by Mirco scoop, optical equipment, connector, and so on.
- It is also burnable for easy dispose.
- The high-quality cotton fibers provide excellent particle entrapment and retention, as well as exceptional absorbency of most solvents and solutions.
- The Huby Swabs are absorbent to most common solvents including isopropyl alcohol, acetone, and is ideal for use with aqueous based solutions.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|---|------------------------------|
| Dimensions | Double semi-rounded \varnothing 2.6 x 13.5 mm | \varnothing 1.52 x 73.0 mm |
| Material | Cotton | Paper |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------|-------------|---------|----------|--------|
| Swab Huby-340 BB-003 | 360014 | 75.0 mm | 25 | 100x20 |



Swab Huby-340 CA-003

- Very absorbent with excellent water absorption and easy to dispose of.
- Double-tip cotton swabs with sharp tips are made of high-quality, long-staple cotton, tightly wrapped at both ends of the high-strength paper handle.
- The high-quality cotton fibres offer excellent particle containment and retention capacity as well as exceptional absorbency of most solvents and solutions.
- The swabs are suitable for the most common solvents, including isopropyl alcohol and acetone, absorbent and ideal for use with water-based solutions

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|--|---------------------------|
| Dimensions | Double pointed \emptyset 4.7 x 11.0 mm | \emptyset 2.5 x 73.0 mm |
| Material | Cotton | Paper |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------|-------------|-----------------|----------|--------|
| Swab Huby-340 CA-003 | 360007 | 81.0 \pm 1 mm | 50 | 20 |



Swab Huby-340 CA-006

- Fine handle made of wood, with simple hard spherically applied cotton swab.
- Very absorbent with excellent water absorption and easy to dispose of.
- Made of high-quality, long-staple cotton, tightly wrapped at one end of the wooden handle.
- The high-quality cotton fibres offer excellent particle containment and retention capacity as well as exceptional absorbency of most solvents and solutions.
- The swabs are suitable for the most common solvents, including isopropyl alcohol and acetone, are absorbent and ideal for use with water-based solutions.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|--|------------------------------|
| Dimensions | Simply rounded \varnothing 4.7 x 15.0 mm | \varnothing 2.3 x 148.0 mm |
| Material | Cotton | Wood |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------|-------------|--------------------|----------|--------|
| Swab Huby-340 CA-003 | 360015 | 150,0 \pm 0,5 mm | 100 | 10x20 |



Swab Huby-340 CA-008

- Very absorbent with excellent water absorption and easy to dispose of.
- The double-sided swab with pointed head is made of high-quality, long stacked cotton, tightly wrapped at both ends of the high-strength paper handle.
- The high-quality cotton fibres offer excellent particle confinement and retention, as well as exceptional absorbency of most solvents and solutions.
- Suitable for the most common solvents, including isopropyl alcohol and acetone, the swabs are absorbent and ideal for use with water-based solutions

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|--|------------------------------|
| Dimensions | Double conical \varnothing 5.0 x 13.0 mm | \varnothing 2.5 x 145.5 mm |
| Material | Cotton | Paper |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------|-------------|--------------------|----------|--------|
| Swab Huby-340 CA-008 | 360012 | 153,5 \pm 1,0 mm | 100 | 10x20 |



Swab Huby-340 CA-005

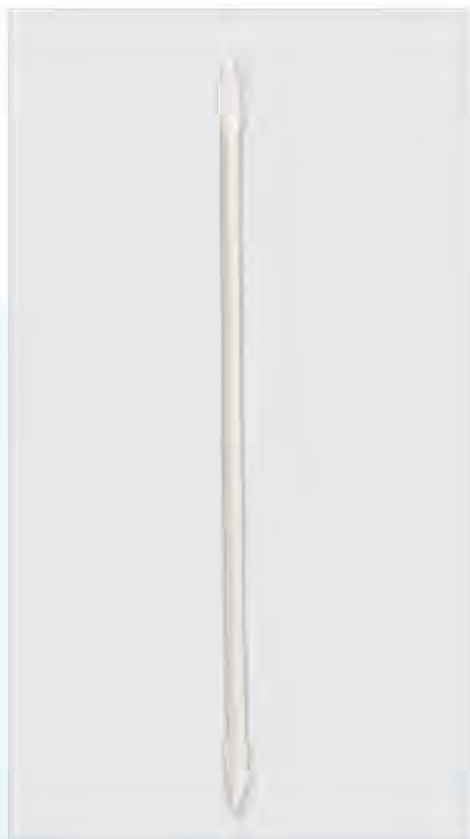
- Very absorbent with excellent water absorption and easy to dispose of.
- The long handle facilitates the cleaning and maintenance of machines.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|-------------------|--|------------------------------|
| Dimensions | Single semi-circular \varnothing 2.3 x 16.0 mm | \varnothing 2.5 x 145.5 mm |
| Material | Cotton | Paper |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------|-------------|--------------------|----------|--------|
| Swab Huby-340 CA-005 | 360010 | 146,5 \pm 0,5 mm | 100 | 25x20 |



Swab Huby-340 BB-013

- BB-013 is corn born stem aiming to increase the cotton for high absorbent and developed by end-user needs for more absorbency to clean critical areas.
- BB-013 is 3 inch baby type cotton swab.
- Head is sharp, lint-less and highly absorbent with excellent water absorption and in convenient to use a solvent soaked.
- It using by Micro scoop, optical equipment, connecter and so on, also burnable for easy dispose.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|--|-----------------------------|
| Dimensions | Head double pointed \varnothing 2.2 x 8.0 mm | \varnothing 1.5 x 73.0 mm |
| Material | Cotton | Stalk pressed cotton |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------|-------------|-------------------|----------|--------|
| Swab Huby-340 BB-013 | 360013 | 76.0 \pm 1,0 mm | 25 | 100x20 |



Huby-340 CA-002

- CA-002 is 3 inch cotton applicator.
- The shape of this extremely absorbent swab makes it perfect for use in precision areas such as B, the laser and optics industry.
- The material cotton is naturally very resistant to chemicals and is well compatible with various solvents.
- Head is spherical and stem are stick and hard, easy to use for variously.
- Maintenance, cleaning for precision machinery and etc, one of the very popular item.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|---|-----------------------------|
| Dimensions | Head double round \varnothing 4.4 x 15.0 mm | \varnothing 2.5 x 73.0 mm |
| Material | Cotton | Stalk pressed cotton |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|----------------------|-------------|-------------------|----------|--------|
| Swab Huby-340 CA-002 | 360017 | 77.5 \pm 0,8 mm | 25 | 50x20 |



Swab PureFlock Ultra 3317-U, PU/PS, 1-sided

- An ideal choice for flock swabs with excellent absorption and elution of samples when the high absorbency of HydraFlock is not required.
- The high purity properties of PurFlock Ultra make it an ideal swab for various rapid diagnostic tests.
- Medical quality
- Highly absorbent tip
- Soft smooth lace
- Applications:
- For nasopharyngeal and urethral cell collection
- Sample collection
- Rapid diagnostic tests
- Forensic Evidence Collection

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|------------------------------------|---------------------------|
| Dimensions | Head double round 3.556mmx 16.76mm | 2.54mmx152.146mm |
| Material | PureFlok Ultra | polyurethane, polystyrene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|---|-------------|-----------|----------|--------|
| Swab PureFlock Ultra 3317-U, PU/PS, 1-sided | 360054 | 152.908mm | 100 | |



Swab 25-1506 1PF100, PUPS, 1-sided, sterile

- This special applicator is made of 100ppi high quality polyurethane foam.
- It is securely glued to a hollow polystyrene handle that breaks when bent 90 degrees.
- Medical quality
- Foam has excellent collection and separation properties
- Soft foam tip for patient comfort
- Can be used dry or with media
- Cheek swab
- For nasal and anterior nostrils sampling for diagnostic testing
- For general sampling for testing
- Used in pediatrics, ophthalmology, veterinary medicine and oropharyngeal applications
- Component of rapid diagnostic kits

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|------------------|-----------------|
| Dimensions | 4.775x 16.002 mm | 2.54x 149.225mm |
| Material | polyurethane | polystyrene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|--|-------------|---------|----------|--------|
| Swab 25-1506 1PF100, PU/PS, 1-sided, sterile | 360053 | 151.867 | 1 | 100x10 |



Swab PureFlock Ultra 25-3317-U, PU/PS, 1-sided, sterile

- An ideal choice for flock swabs with excellent absorption and elution of samples when the high absorbency of HydraFlock is not required.
- The high purity properties of PurFlock Ultra make it an ideal swab for various rapid diagnostic tests.

TECHNICAL DATA

| SPECIFICATIONS | HEAD | STEM |
|----------------|-----------------|----------------|
| Dimensions | 3.556x 16.76 mm | 2.54x 152.14mm |
| Material | polyurethane | polystyrene |

ORDER INFORMATION

| PRODUCT | PART NUMBER | SIZE | SWABS/PK | PKS/CS |
|---|-------------|---------|----------|--------|
| Swab PureFlock Ultra 25-3317-U, PU/PS, 1-sided, sterile | 360055 | 151.867 | 1 | 50x10 |

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