



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 2C Series

**Description:** Lightly powdered finger cots, latex, 3mil thick, white color  
**Material:** Natural Rubber Latex  
**Quantity:** 10 gross per bag, 200 gross per case (10 x 20=200 gross)  
**Sizes:** S, M, L, XL

### PROTECTION:

- Particulates
- Skin salts and oils

### FEATURES / BENEFITS:

- USDA Compliant for Federally-inspected meat & poultry plants
- Lightly powdered with USP absorbable corn starch
- Economical Protection
- Lowest ionics/extractables
- No silicones used in manufacturing
- Proven latex formulation
- Competitive pricing

### COMPLIANCE:

- USDA C.F.R. 21 170-199
- ASTM D 3772-97 Compliant

### APPLICATION / SALES AREAS:

Basic product protection for food handling, inspection, research labs, printing operations, construction, photography and beauty industry.

### LATEX WARNING:

This product contains natural rubber latex, which may cause allergic reactions.

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## 5C Fingercots

**Description:** Washed, cleanroom processed latex finger cots, 3-mil thick, ivory color. P-3 Polar Process; Oxyglazed and Haloxxygenated Treatment.

**Quantity:** 5 gross per Pak, 20 Paks per case

**Sizes:** Small (1), Medium (2), Large (3), Extra large (4)

**Protection:**

- Particulates
- Skin salts and oils

**Features/Benefits:**

- Powder-free protection
- Tested IES-RP-CC005
- Cost effective protection from particulates
- Lowest ionics/extractables
- No silicones used in manufacture
- For use in cleanrooms and controlled manufacturing environments
- Proven latex formulation
- Competitive pricing
- TrayPak allows easy stacking
- Hermetically sealed Pak

**Applications:**

Discrete components, hard drive assemblies, die bonding and wire attaching, disk drives/thin film heads, optics and finishing and cleaning and handling of precision instruments

**Latex Warning:**

This product contains natural rubber latex, which may cause allergic reactions.

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## 7C Fingercots

**Description:** Anti-static, washed cleanroom processed latex finger cots, 3 mils thick, pink color

**Quantity:** 5 gross per Pak, 20 Paks, 100 gross per case

**Sizes:** Small, Medium, Large, Extra large, Extra Extra Large

**Protection:**

- Particulates
- ESD – Surface Resistivity  $10^{10}$  Ohms/sq.

**Features and Benefits:**

- Powder-free protection for ESD handling
- Tested IES-RP-CC005
- Static safe shipper with static shielding inner bag (double bagged)
- Immobilized for minimal tribo-electric charging
- For use in cleanrooms, laboratories, assembly areas
- Proven latex formulation
- Four sizes (not all competition makes ALL sizes)
- Anti-static agent is BLENDED into the latex so it will not migrate. Some of the competition sprays anti-static coating (migratory)

**Applications:**

ESD Sensitive areas, defense, avionics, marine electronics, consumer electronics, IC industries, wire bonding, repair stations and assembly areas

**Latex Warning:**

This product contains natural rubber latex which may cause allergic reactions.

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## CONDUCTIVE LATEX FINGERCOTS 8C SERIES

**Description:** Conductive/dissipative, washed cleanroom process latex finger cots, 3 mil thickness, black color

**Quantity:** 5 gross per cleanroom, stat-shield pack, 20 packs per case

**Sizes:** Small, Medium, Large, Extra Large, Extra Extra Large

### PROTECTION:

- Particulates
- ESD – Surface Resistivity  $10^7$  Ohms/sq.

### FEATURES / BENEFITS:

- Powder-free protection
- Compliant with MIL-STD-1686D, ANSI ESD S11.11-1993 and STN 11.12-2000
- Static safe shipper with static shielding inner bag (double bagged)
- Immobilized for minimal tribo-electric charging
- For use in cleanrooms
- Extremely low carbon shed; NO silicone used in the manufacturing process
- Lot number traceability
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### APPLICATION / SALES AREAS:

Recommended for use with Class I and Class II devices.  
Defense, avionics, IC industries, electronics, assembly, wire attach, die bonding, laser diodes and field repair kits

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## ANTI-STATIC NITRILE FINGERCOTS 9C SERIES

**Description:** Anti-Static, washed cleanroom process nitrile finger cots, 3mil thick, white color.  
**Quantity:** 5 gross per cleanroom, stat-shield pack, 20 Packs per case  
**Sizes:** Small, Medium, Large, Extra Large, Extra Extra Large

### PROTECTION:

- Particulates
- ESD – Surface Resistivity  $10^9$  Ohms/sq.

### FEATURES / BENEFITS:

- Latex-free protection
- Resists wide range of chemicals
- Compliant with ANSI ESD S11.11 & STN 11.12
- Meets ASTM-D3772
- Static safe shipper with static shielding inner bag (double bagged)
- For use in cleanrooms
- No silicone used in the manufacturing process
- Lot number traceability

### APPLICATION / SALES AREAS:

Recommended for use with Class II static sensitive devices (thresholds Above 1000V). Defense avionics, marine electronics, consumer electronics, IC industries, wire bonding, repair stations, PCB manufacturing, assembly.

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## BF SERIES

**Description:** Smooth latex finger cots for food handling, 75mm length (approximately 2 3/4"), 3 mil thickness, blue in color, flat, mechanically cleaned (tumbled).

**Quantity:** 5 gross per pack, 20 packs per case.

**Sizes:** S, M, L, XL

### PROTECTION:

- Particulates
- Human skin salts and oils, cosmetics, contaminants

### FEATURES/BENEFITS:

- Durable, reusable, medium weight, 7 mil thickness
- USDA compliant
- Blue in color for easy visual detection
- Tapered for comfortable fit, non-irritating
- Offers excellent tactile sensitivity
- Four sizes available
- Extensive post manufacturing leaching; reduces the potential of latex sensitivity

### APPLICATION/SALES AREAS:

Laboratory, assembly, food service/food processing, applications requiring high color contrast.

### LATEX WARNING:

This product contains natural rubber latex, which may cause allergic reactions.

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## GLOVE SPECIFICATION

### Latex 12" Ambidextrous Class 100 Cleanroom Glove QRP Style 612HC

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#### Glove Specifications:

Typical Thickness (singlewall):

Cuff 0.12 mm; palm 0.19 mm; finger 0.21mm all  $\pm$  0.02 mm

Length: 300 mm minimum

Width at palm (per ASTM D 3578 all mm):

X-small	78 – 80
Small	83 – 85
Medium	93 – 85
Large	104 – 108
X-large	120 – 123

#### Physical Properties:

Tensile pre-aging 24 Mpa

Tensile post-aging 20 Mpa

Elongation @ break pre-aging 800%

Elongation @ break post-aging 750%

Protein Content per ASTM D 5712: < 50ug/dm<sup>2</sup>

Liquid Particle Count (0.5 micron and above): < 1,500 particles/cm<sup>2</sup>

#### Extractable Ions:

<u>Trace Element</u>	<u>&lt; ug/cm<sup>2</sup></u>
Calcium	1.000
Magnesium	0.010
Potassium	0.100
Sodium	0.100
Chloride	1.500
Aluminum	0.005
Chromium	0.010
Fluoride	0.050
Iron	0.005
Nickel	0.005
Phosphate	0.010
Sulphate	0.200
Nitrate	0.200
Zinc	0.500

Testing References: IEST-RP-CC-005; ASTM D 3578; ASTM D 5151

#### Features:

High modulus – extra comfort

Long beaded cuff – eliminates gap between glove and sleeve – per IEST RP

Textured for better grip

#### Packing:

100 gloves/double poly bag; two stacks of 50; cuffs aligned to open edge of bag

10 double bags in poly liner bag per doublewall shipping case.

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## Q095 Qualatrilite XC White Nitrile ISO 5 (Class 100) Specification Sheet

Reference Documents: IES-RP-CC-005-87 (Cleanroom Gloves and Fingercots)  
ASTM D6319 (Examination Gloves)

Material: 100% Nitrile (Acrylonitrile-butadiene) rubber, free of plasticizers,  
phthalate esters, silicone oil and amides

Particle Counts: Test procedures follow IES-RP-CC-005. Particle counts range from  
800 to 1,200 particles per cm<sup>2</sup>

Extractables: Maximum limits utilizing IES-RCC-005 test procedures

Key Trace Elements	Maximum µg/cm <sup>2</sup>
Calcium (Ca)	0.500
Magnesium (Mg)	<0.01
Potassium (K)	0.300
Sodium (Na)	0.300
Chloride (Cl)	1.000
Additional Trace Elements	Maximum µg/cm <sup>2</sup>
Aluminum (Al)	<0.020
Chromium (Cr)	<0.002
Copper (Cu)	<0.002
Fluoride (F)	<0.007
Iron (Fe)	<0.002
Nickel (Ni)	<0.002
Phosphate (PO <sub>4</sub> )	<0.002
Sulphate (SO <sub>4</sub> )	<0.002
Nitrate (NO <sub>3</sub> )	<0.800
Zinc (Zn)	0.500

Dimensions: Per ASTM D6319 Examination Gloves

Size	Minimum Length	Width
	(mm)	(mm) (± 10)
Small	220	80
Medium	230	95
Large	230	110
X-Large	230	120

Gloves are double chlorinated (inner and outer surfaces)  
utilizing a fully automated process.

## Q095 Qualatrilite XC White Nitrile ISO 5 (Class 100) Specification Sheet

Thickness: Per ASTM D6319 Examination gloves

Finger (mm)	Palm (mm)	Cuff (mm)
0.15	0.13	0.08

Surface Resistivity: Maximum  $10^9$  ohms/square (ASTM-257)

Static Decay: Maximum 3 seconds (FTMS 101-C, 4046)

Triboelectric Charge: Maximum 50 volts

Physical Properties: Maximum levels for tensile strength, elongation, modulus.

Tensile strength before aging	14 MPa
Tensile strength after aging	14 MPa
Elongation at break before aging	500%
Elongation at break after aging	400%

Packaging: 100 gloves per double poly bag in bag  
10 polybags per master polybag  
1 master polybag per shipping carton

Certificate of Conformance: A certificate of conformance is available upon request

Quality Assurance: Manufactured under ISO 9002 Quality System

## Q125 Qualatrilite XC White Nitrile ISO 5 (Class 100) Specification Sheet

Reference Documents: IES-RP-CC-005-87 (Cleanroom Gloves and Fingercots)  
ASTM D6319 (Examination Gloves)

Material: 100% Nitrile (Acrylonitrile-butadiene) rubber, free of plasticizers,  
phthalate esters, silicone oil and amides

Particle Counts: Test procedures follow IES-RP-CC-005. Particle counts range from  
800 to 1,200 particles per cm<sup>2</sup>

Extractables: Maximum limits utilizing IES-RCC-005 test procedures

Key Trace Elements	Maximum µg/cm <sup>2</sup>
Calcium (Ca)	0.500
Magnesium (Mg)	<0.01
Potassium (K)	0.300
Sodium (Na)	0.300
Chloride (Cl)	1.000
Additional Trace Elements	Maximum µg/cm <sup>2</sup>
Aluminum (Al)	<0.020
Chromium (Cr)	<0.002
Copper (Cu)	<0.002
Fluoride (F)	<0.007
Iron (Fe)	<0.002
Nickel (Ni)	<0.002
Phosphate (PO <sub>4</sub> )	<0.002
Sulphate (SO <sub>4</sub> )	<0.002
Nitrate (NO <sub>3</sub> )	<0.800
Zinc (Zn)	0.500

Dimensions: Per ASTM D6319 Examination Gloves

Size	Minimum Length	Width
	(mm)	(mm) (± 10)
Small	300	80
Medium	300	95
Large	300	110
X-Large	300	120

Gloves are double chlorinated (inner and outer surfaces)  
utilizing a fully automated process.

## Q125 Qualatrilite XC White Nitrile ISO 5 (Class 100) Specification Sheet

Thickness: Per ASTM D6319 Examination gloves

Finger (mm)	Palm (mm)	Cuff (mm)
0.15	0.13	0.08

Surface Resistivity: Maximum  $10^9$  ohms/square (ASTM-257)

Static Decay: Maximum 3 seconds (FTMS 101-C, 4046)

Triboelectric Charge: Maximum 50 volts

Physical Properties: Maximum levels for tensile strength, elongation, modulus.

Tensile strength before aging	14 MPa
Tensile strength after aging	14 MPa
Elongation at break before aging	500%
Elongation at break after aging	400%

Packaging: 100 gloves per double poly bag in bag  
10 polybags per master polybag  
1 master polybag per shipping carton

Certificate of Conformance: A certificate of conformance is available upon request

Quality Assurance: Manufactured under ISO 9002 Quality System



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# ISO 5 CLASS 100 **XC** Vinyl Cleanroom Gloves

## Product Information

QRP XC vinyl clean room ambi gloves are recommended for all electronic, pharmaceutical, laboratory and device manufacturing environments where an ultra clean, 100% synthetic polymer glove is required. Manufactured from high-grade synthetic PVC co-polymer, QRP's P3 Polar Process insures a consistently clean and reliable glove with ultra-low particulate generation. Inherently anti-static, sheer, seamless, and comfortably silky, the QRP's XC Cleanroom Vinyl gloves are the gloves of choice.

### Dimensions

Glove Size	Palm Width (mm)	Length 12"/ 290 mm
Extra small	80 ± 5	290 ± 5
Small	85 ± 5	290 ± 5
Medium	95 ± 5	290 ± 5
Large	105 ± 5	290 ± 5
Extra Large	115 ± 5	290 ± 5

### Typical Thickness

Location of Thickness Measurements	mm
Finger	min. 0.08
Palm	min. 0.08

### Physical Properties

Criteria	Before Aging	After Aging
Tensile Strength (Mpa)	min. 9	min. 9
Elongation (%)	min. 300	min. 300

### Electrostatic Properties

Criteria	Volume Resistivity ESD-S11.12 (Ω-m)	Volume Resistivity ASTM-D257(Ω-CM)	In Use Decay Times (Seconds)
@12% Relative Humidity	3.16 x 10 <sup>11</sup>	2.37 x 10 <sup>10</sup>	0.006

- **Features:** Translucent white, ambidextrous, straight fingers, smooth surface, beaded cuff
- **Part Number:** VHC12
- **Sizes:** 12 inch length, ambi, X-Small, Small, Medium, Large and X-Large
- **Packing:** 100gloves/poly bag, 10 poly bags per carton
- **Compliant:** IEST-RP-CC-005.2, ASTM D 5250-99, ASTM D 412, ASTM D 5151-99
- **Quality Sampling Plan:** MIL-STD-105E Inspection Levels S-2 & S-4 / ISO 2859-1 / BS6001