



QUALITY ▪ RELIABILITY ▪ PERFORMANCE

## 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.

QRP, Inc. ©Copyright 1997



## 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.

QRP, Inc. ©Copyright 1997 R2012



## 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.



QUALITY ■ RELIABILITY ■ PERFORMANCE

## 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
- \*

### 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

QRP, Inc. ©Copyright 1997



## 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.



QUALITY ■ RELIABILITY ■ PERFORMANCE

## 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.

QRP, Inc. © Copyright 1997



## GLOVE SPECIFICATION

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

---

#### 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.

August 2011



QUALITY ■ RELIABILITY ■ PERFORMANCE

**Q095 Qualatrile 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.





QUALITY • RELIABILITY • PERFORMANCE

**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



QUALITY • RELIABILITY • PERFORMANCE

**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

| <b>Finger (mm)</b> | <b>Palm (mm)</b> | <b>Cuff (mm)</b> |
|--------------------|------------------|------------------|
| 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



QUALITY, RELIABILITY, PERFORMANCE

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

### Product Information

QRP XC vinyl clean room ambidextrous 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