



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



QUALITY ■ RELIABILITY ■ PERFORMANCE

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.

QRP, Inc. ©Copyright 1997



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/dm²

Liquid Particle Count (0.5 micron and above): < 1,500 particles/cm²

Extractable Ions:

<u>Trace Element</u>	<u>< ug/cm²</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 cm²

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

Key Trace Elements	Maximum µg/cm ²
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 ²
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 ₄)	<0.002
Sulphate (SO ₄)	<0.002
Nitrate (NO ₃)	<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 cm²

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

Key Trace Elements	Maximum µg/cm ²
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 ²
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 ₄)	<0.002
Sulphate (SO ₄)	<0.002
Nitrate (NO ₃)	<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



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 ¹¹	2.37 x 10 ¹⁰	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