



GLOVEBROCHURE

for Cleanroom Professionals

MICROFLEX[®]
THE MOST TRUSTED NAME IN GLOVES[®]

Microflex® The Most Trusted Name in Gloves®

Industry Leading Protection for Cleanroom Professionals

Our Promise To You

For more than a quarter century one name has defined excellence in industry leading hand protection – Microflex.

At Microflex we understand that quality barrier protection is essential to your health, your safety, and the ability to do your job effectively. That's why we continually strive to evolve our products to deliver enhanced comfort, industry-leading protection, and greater productivity.

Passionate About Advancing Protection

Through our uncompromising mission to research, design, and manufacture the most secure, reliable, and comfortable gloves, we have not only kept pace with the needs of our customers, we have become a respected innovator in advancing protection for disposable glove wearers around the world. Our state of the art lab facility allows us to continually evolve and improve our barrier protection standards.

The Microflex® Difference

It is important to us to continue evolving our design to better meet your needs while delivering the most advanced innovation available today. Our improvements in glove materials have allowed us to make a glove that is stronger and lighter than previous products. With a stronger film we are able to produce a thinner product that improves the tactile sensitivity of



the glove, without compromising the durability. We have upgraded to newer molds for our ambidextrous latex and nitrile products to improve ergonomics, fit, and glove donning. We've also added new products to our portfolio to give you more choices when it comes to cleanroom protection. You can count on Microflex to provide the right glove for the right application so that you can get the job done with greater ease.

To receive a FREE sample or to request more information, please contact us at (800) 876-6866 between 6:00 a.m. and 5:00 p.m. PST, or visit us at www.microflex.com. Discover why Microflex® is The Most Trusted Name in Gloves®.

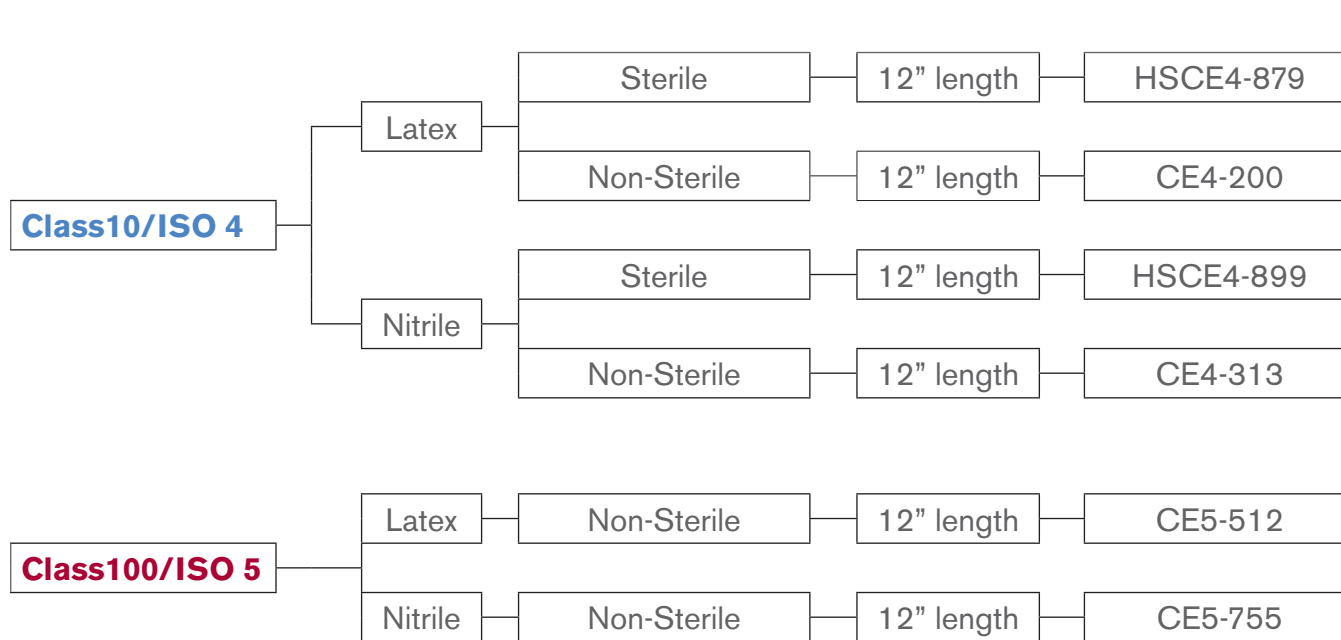
Guaranteed Satisfaction

At Microflex, we stand behind our products. If for any reason you are not satisfied with our product, call us. We will arrange for a replacement shipment or a full credit.

The Microflex® Cleanroom Portfolio

Microflex® **CE4** and **CE5** cleanroom gloves provide hand protection with consistent cleanliness and comprehensive compliance to ASTM and IEST standards to meet the demands of controlled environments. These gloves are produced in a totally integrated facility certified to ISO 9001 standards.

As our assurance that our **CE4** and **CE5** gloves meet or exceed our specifications, we offer lot specific Certificates of Analysis upon request. Microflex® gloves are an excellent choice for controlled environments and are designed to provide the highest quality and best value in the market.





Microflex® HSCE4-899

12" **Class 10** Hand-Specific Sterile **Nitrile** Gloves

HSCE4-899 GLOVE SPECS

Product Code	Size	Palm Width (mm)
HSCE4-899-6.0	6.0	76 ± 5
HSCE4-899-6.5	6.5	83 ± 5
HSCE4-899-7.0	7.0	89 ± 5
HSCE4-899-7.5	7.5	95 ± 5
HSCE4-899-8.0	8.0	102 ± 5
HSCE4-899-8.5	8.5	108 ± 5
HSCE4-899-9.0	9.0	114 ± 5
HSCE4-899-10.0	10.0	123 ± 5

Sterile Packaging: 1 pair per poly-wallet; 1 poly-wallet per inner polybag; 10 inner polybags per master polybag, 20 master polybags per carton of 200 pairs

HSCE4-899 GLOVE PROFILE

Material: 100% nitrile (Acrylonitrile-butadiene), a synthetic copolymer

Protein Level: This product **DOES NOT** contain natural rubber latex

FTIR: Silicone Oil, Amide, DOP [not detectable]

Non-Volatile Residue: Max.30 mg/g

Endotoxin: Max. 20 EU

Surface Resistivity: Max. 1×10^{11} ohms/square

Static Decay: Max. 3 seconds

Design Features: White color, Hand specific, Fully textured with a beaded cuff

THICKNESS (SINGLE WALL)		PHYSICAL PROPERTIES				
LOCATION OF MEASUREMENTS		TENSILE STRENGTH		ULTIMATE ELONGATION		CUFF LENGTH
Finger at 15mm from fingertip	Palm at center of palm	Before Aging	After Aging	Before Aging	After Aging	mm (inches)
4.7 mils	4.7 mils	min. 20 MPa	min. 19 MPa	min. 500%	min. 400%	min. 290(11.4)

HSCE4-899 ATTRIBUTES

PARTICLE COUNT*: (Particle size of 0.5 micron & above): Maximum: 1,500/cm²

TRACE ELEMENTS*:

Ammonium (NH ₄) 0.05 µg/cm ²	Nitrate (NO ₃) 0.25 µg/cm ²
Bromide (Br) [not detectable]	Nitrite (NO ₂) [not detectable]
Calcium (Ca) 2.00 µg/cm ²	Phosphate (PO ₄) [not detectable]
Chloride (Cl) 5.00 µg/cm ²	Potassium (K) 0.50 µg/cm ²
Fluoride (F) [not detectable]	Sodium (Na) 0.25 µg/cm ²
Lithium (Li) [not detectable]	Sulfate (SO ₄) 0.10 µg/cm ²
Magnesium (Mg ₂) [not detectable]	

* Tested in accordance to IEST-PP-CC-005.3

** Tested in accordance to FTMS 101-C, 4046



Microflex® HSCE4-879

12" **Class 10** Hand-Specific Sterile **Latex** Gloves

HSCE4-879 GLOVE SPECS

Product Code	Size	Palm Width (mm)
HSCE4-879-6.0	6.0	77 ± 4
HSCE4-879-6.5	6.5	83 ± 3
HSCE4-879-7.0	7.0	89 ± 4
HSCE4-879-7.5	7.5	95 ± 4
HSCE4-879-8.0	8.0	102 ± 5
HSCE4-879-8.5	8.5	108 ± 5
HSCE4-879-9.0	9.0	114 ± 5

Sterile Packaging: 1 pair per poly-wallet; 1 poly-wallet per inner polybag; 10 inner polybags per master polybag, 20 master polybags per carton of 200 pairs

HSCE4-879 GLOVE PROFILE

Material: High grade natural rubber latex, in compliance with ISO 2004

Protein Level: <50 µg/g (Tested in accordance to ASTM D5712, current revision)

FTIR: Silicone Oil, Amide, DOP [not detectable]

Non-Volatile Residue: Max.30 mg/g

Endotoxin: N/A

Surface Resistivity: N/A

Static Decay: N/A

Design Features: Natural color, Hand specific, Smooth with a beaded cuff

THICKNESS (SINGLE WALL)		PHYSICAL PROPERTIES				
LOCATION OF MEASUREMENTS		TENSILE STRENGTH		ULTIMATE ELONGATION		CUFF LENGTH
Finger	Palm	Before Aging	After Aging	Before Aging	After Aging	mm (inches)
at 15mm from fingertip	at center of palm					
min. 7.9 mils	min. 5.9 mils	min. 24 MPa	min. 22 MPa	min. 750%	min. 600%	min. 279(11.0)

HSCE4-879 ATTRIBUTES

PARTICLE COUNT*: (Particle size of 0.5 micron & above): Maximum: 650/cm²

TRACE ELEMENTS*:

Bromide (Br) 0.10 µg/cm ²	Nitrate (NO₃) 1.00 µg/cm ²
Calcium (Ca) 0.50 µg/cm ²	Phosphate (PO₄) 0.10 µg/cm ²
Chloride (Cl) 1.00 µg/cm ²	Potassium (K) 0.15 µg/cm ²
Fluoride (F) 0.10 µg/cm ²	Sodium (Na) 0.10 µg/cm ²
Magnesium (Mg₂) 0.03 µg/cm ²	Sulfate (SO₄) 0.10 µg/cm ²

* Tested in accordance to IEST-RP-CC-005.3

** Tested in accordance to FTMS 101-C, 4046



Microflex® CE5

12" **Class 100** Ambidextrous Nitrile Gloves

CE5-755 GLOVE SPECS

Product Code	Size	Palm Width (mm)
CE5-755-XS	XS	70 ± 10
CE5-755-S	S	80 ± 10
CE5-755-M	M	95 ± 10
CE5-755-L	L	110 ± 10
CE5-755-XL	XL	120 ± 10
CE5-755-XXL†	XXL	130 ± 10

Packaging: 100 gloves per double, vacuum-sealed, polybags / 10 polybags per poly lined carton of 1,000 gloves

† XXL are packaged 90 gloves per polybag or 900 gloves per carton.

CE5-755 GLOVE PROFILE

Material: 100% nitrile (Acrylonitrile-butadiene), a synthetic copolymer

Protein Level: This product **DOES NOT** contain natural rubber latex

FTIR: Silicone Oil, Amide, DOP [not detectable]

Non-Volatile Residue: Max.30 mg/g

Endotoxin: N/A

Surface Resistivity: Max. 1 x 10¹¹ ohms/square

Static Decay: Max. 3 seconds

Design Features: White color, Ambidextrous, Textured fingers with a beaded cuff

THICKNESS (SINGLE WALL)		PHYSICAL PROPERTIES				
LOCATION OF MEASUREMENTS		TENSILE STRENGTH		ULTIMATE ELONGATION		CUFF LENGTH
Finger at 15mm from fingertip	Palm at center of palm	Before Aging	After Aging	Before Aging	After Aging	mm (inches)
min. 4.7 mils	min. 3.9 mils	min. 25 MPa	min. 19 MPa	min. 500%	min. 400%	min. 290(11.4)

CE5-755 ATTRIBUTES

PARTICLE COUNT*: (Particle size of 0.5 micron & above): Maximum: 2,000/cm²

TRACE ELEMENTS*:

Bromide (Br) 0.30 µg/cm ²	Phosphate (PO₄) 0.30 µg/cm ²
Calcium (Ca) 1.00 µg/cm ²	Potassium (K) 0.30 µg/cm ²
Chloride (Cl) 1.00 µg/cm ²	Sodium (Na) 0.30 µg/cm ²
Fluoride (F) 0.10 µg/cm ²	Sulfate (SO₄) 0.30 µg/cm ²
Nitrate (NO₃) 1.00 µg/cm ²	

* Tested in accordance to IEST-RP-CC-005.3

** Tested in accordance to FTMS 101-C, 4046



Microflex® CE4

12" **Class 10** Ambidextrous **Nitrile** Gloves

CE4-313 GLOVE SPECS

Product Code	Size	Palm Width (mm)
CE4-313-XS	XS	70 ± 10
CE4-313-S	S	80 ± 10
CE4-313-M	M	95 ± 10
CE4-313-L	L	110 ± 10
CE4-313-XL	XL	120 ± 10
CE4-313-XXL†	XXL	130 ± 10

Packaging: 100 gloves per double, vacuum-sealed, polybags / 10 polybags per poly lined carton of 1,000 gloves

† XXL are packaged 90 gloves per polybag or 900 gloves per carton.

CE4-313 GLOVE PROFILE

Material: 100% nitrile (Acrylonitrile-butadiene), a synthetic copolymer

Protein Level: This product **DOES NOT** contain natural rubber latex

FTIR: Silicone Oil, Amide, DOP [not detectable]

Non-Volatile Residue: Max.30 mg/g

Endotoxin: N/A

Surface Resistivity: Max. 1 x 10¹¹ ohms/square

Static Decay: Max. 3 seconds

Design Features: White color, Ambidextrous, Textured fingers with a beaded cuff

THICKNESS (SINGLE WALL)		PHYSICAL PROPERTIES				
LOCATION OF MEASUREMENTS		TENSILE STRENGTH		ULTIMATE ELONGATION		CUFF LENGTH
Finger	Palm	Before Aging	After Aging	Before Aging	After Aging	mm (inches)
at 15mm from fingertip	at center of palm					
min. 3.9 mils	min. 4.7 mils	min. 30 MPa	min. 32 MPa	min. 500%	min. 400%	min. 290(11.4)

CE4-313 ATTRIBUTES

PARTICLE COUNT*: (Particle size of 0.5 micron & above): Maximum: 850/cm²

TRACE ELEMENTS*:

Bromide (Br) 0.05 µg/cm ²	Nitrate (NO₃) 0.40 µg/cm ²
Calcium (Ca) 0.80 µg/cm ²	Phosphate (PO₄) 0.20 µg/cm ²
Chloride (Cl) 0.30 µg/cm ²	Potassium (K) 0.10 µg/cm ²
Fluoride (F) 0.01 µg/cm ²	Sodium (Na) 0.05 µg/cm ²
Magnesium (Mg₂) 0.20 µg/cm ²	Sulfate (SO₄) 0.02 µg/cm ²

* Tested in accordance to IEST-RP-CC-005.3

** Tested in accordance to FTMS 101-C, 4046



Microflex® CE5

12" **Class 100** Ambidextrous **Latex** Gloves

CE5-512 GLOVE SPECS

Product Code	Size	Palm Width (mm)
CE5-512-XS	XS	75 ± 5
CE5-512-S	S	85 ± 5
CE5-512-M	M	95 ± 5
CE5-512-L	L	105 ± 5
CE5-512-XL	XL	115 ± 5

Packaging: 100 gloves per double, vacuum-sealed, polybags / 10 polybags per poly lined carton of 1,000 gloves

CE5-512 GLOVE PROFILE

Material: High grade natural rubber latex, in compliance with ISO 2004

Protein Level: <50 µg/g (Tested in accordance to ASTM D5712, current revision)

FTIR: Silicone Oil, Amide, DOP [not detectable]

Non-Volatile Residue: Max.30 mg/g

Endotoxin: N/A

Surface Resistivity: N/A

Static Decay: N/A

Design Features: Natural color, Ambidextrous, Textured fingers with a beaded cuff

THICKNESS (SINGLE WALL)		PHYSICAL PROPERTIES				
LOCATION OF MEASUREMENTS		TENSILE STRENGTH		ULTIMATE ELONGATION		CUFF LENGTH
Finger at 15mm from fingertip	Palm at center of palm	Before Aging	After Aging	Before Aging	After Aging	mm (inches)
min. 6.3 mils	min. 5.1 mils	min. 25 MPa	min. 16 MPa	min. 750%	min. 600%	min. 290/11.4

CE5-512 ATTRIBUTES

PARTICLE COUNT*: (Particle size of 0.5 micron & above): Maximum: 2,000/cm²

TRACE ELEMENTS*:

Bromide (Br) 1.00 µg/cm² **Phosphate (PO₄)** 1.00 µg/cm²

Chloride (Cl) 2.50 µg/cm² **Potassium (K)** 1.00 µg/cm²

Fluoride (F) 1.00 µg/cm² **Sodium (Na)** 1.00 µg/cm²

Nitrate (NO₃) 1.30 µg/cm² **Sulfate (SO₄)** 1.00 µg/cm²

* Tested in accordance to IEST-PP-CC-005.3

** Tested in accordance to FTMS 101-C, 4046



Microflex® CE4

12" **Class 10** Ambidextrous **Latex** Gloves

CE4-200 GLOVE SPECS

Product Code	Size	Palm Width (mm)
CE4-200-XS	XS	75 ± 5
CE4-200-S	S	85 ± 5
CE4-200-M	M	95 ± 5
CE4-200-L	L	105 ± 5
CE4-200-XL	XL	115 ± 5

Packaging: 100 gloves per double, vacuum-sealed, polybags / 10 polybags per poly lined carton of 1,000 gloves

CE4-200 GLOVE PROFILE

Material: High grade natural rubber latex, in compliance with ISO 2004

Protein Level: <50 µg/g (Tested in accordance to ASTM D5712, current revision)

FTIR: Silicone Oil, Amide, DOP [not detectable]

Non-Volatile Residue: Max.30 mg/g

Endotoxin: N/A

Surface Resistivity: N/A

Static Decay: N/A

Design Features: Natural color, Ambidextrous, Textured fingers with a beaded cuff

THICKNESS (SINGLE WALL)		PHYSICAL PROPERTIES				
LOCATION OF MEASUREMENTS		TENSILE STRENGTH		ULTIMATE ELONGATION		CUFF LENGTH
Finger	Palm	Before Aging	After Aging	Before Aging	After Aging	mm (inches)
at 15mm from fingertip	at center of palm					
min. 6.3 mils	min. 5.1 mils	min. 23 MPa	min. 22 MPa	min. 750%	min. 600%	min. 290/11.4

CE4-200 ATTRIBUTES

PARTICLE COUNT*: (Particle size of 0.5 micron & above): Maximum: 850/cm²

TRACE ELEMENTS*:

Bromide (Br) 0.20 µg/cm ²	Nitrate (NO₃) 0.50 µg/cm ²
Calcium (Ca) 0.50 µg/cm ²	Phosphate (PO₄) 0.20 µg/cm ²
Chloride (Cl) 1.00 µg/cm ²	Potassium (K) 0.20 µg/cm ²
Fluoride (F) 0.20 µg/cm ²	Sodium (Na) 0.20 µg/cm ²
Magnesium (Mg₂) 0.03 µg/cm ²	Sulfate (SO₄) 0.20 µg/cm ²

* Tested in accordance to IEST-RP-CC-005.3

** Tested in accordance to FTMS 101-C, 4046

Microflex® Cleanroom Glove Specifications

Information provided is effective January 2013 and is subject to change without notification. For current specification information, please visit www.microflex.com

(STERILE) 12" HAND SPECIFIC					
		CLASS 10		CLASS 10	
		HSCE4-899		HSCE4-879	
PRODUCT PROFILES	GLOVE MATERIAL	100% NITRILE (ACRYLONITRILE-BUTADIENE), A SYNTHETIC COPOLYMER		HIGH GRADE NATURAL RUBBER LATEX, IN COMPLIANCE WITH ISO 2004	
	LENGTH MM (INCHES)	MIN. 290 (11.4)		MIN. 279 (11.0)	
	PROTEIN LEVEL	THIS PRODUCT DOES NOT CONTAIN NATURAL RUBBER LATEX		<50 µG/G (TESTED IN ACCORDANCE TO ASTM D5712, CURRENT REVISION)	
	FTIR				
	NON-VOLATILE RESIDUE				
	ENDOTOXIN	MAX. 20 EU			
	SURFACE RESISTIVITY	MAX. 10 ⁷ - 10 ¹¹ OHMS		N/A	
	STATIC DECAY	MAX. 3 SECONDS		N/A	
	DESIGN AND FEATURES:	WHITE COLOR, HAND SPECIFIC, FULLY TEXTURED WITH A BEADED CUFF		NATURAL COLOR, HAND SPECIFIC, SMOOTH WITH A BEADED CUFF	
	THICKNESS: SINGLE WALL (MILS)				
	FINGER (AT 15MM FROM FINGERTIP)	4.7		min. 7.9	
	PALM (AT CENTER OF PALM)	4.7		min. 5.9	
PRODUCT SPECS	PHYSICAL PROPERTIES: Tensile Strength (MPa)				
		BEFORE AGING	min. 20	min. 24	
		AFTER AGING	min. 19	min. 22	
	PHYSICAL PROPERTIES: Ultimate Elongation (%)				
		BEFORE AGING	min. 500	min. 750	
		AFTER AGING	min. 400	min. 600	
	PRODUCT SIZE	PALM WIDTH (mm)	PRODUCT CODE:	PALM WIDTH (mm)	PRODUCT CODE:
	6.0	76 ± 5	HSCE4-899-6.0	77 ± 4	HSCE4-879-6.0
	6.5	83 ± 5	HSCE4-899-6.5	83 ± 3	HSCE4-879-6.5
	7.0	89 ± 5	HSCE4-899-7.0	89 ± 4	HSCE4-879-7.0
7.5	95 ± 5	HSCE4-899-7.5	95 ± 4	HSCE4-879-7.5	
8.0	102 ± 5	HSCE4-899-8.0	102 ± 5	HSCE4-879-8.0	
8.5	108 ± 5	HSCE4-899-8.5	108 ± 5	HSCE4-879-8.5	
9.0	114 ± 5	HSCE4-899-9.0	114 ± 5	HSCE4-879-9.0	
10.0	123 ± 5	HSCE4-899-10.0			
PACKAGING:	1 pair per poly-wallet, 1 poly-wallet per inner polybag, 10 inner polybags per master polybag, 20 master polybags per carton of 200 pairs				

12" AMBIDEXTROUS					12" AMBIDEXTROUS			
CLASS 100		CLASS 10			CLASS 100		CLASS 10	
CE5-755		CE4-313			CE5-512		CE4-200	
100% NITRILE (ACRYLONITRILE-BUTADIENE), A SYNTHETIC COPOLYMER					HIGH GRADE NATURAL RUBBER LATEX, IN COMPLIANCE WITH ISO 2004			
MIN. 290 (11.4)								
THIS PRODUCT DOES NOT CONTAIN NATURAL RUBBER LATEX					<50 µG/G (TESTED IN ACCORDANCE TO ASTM D5712, CURRENT REVISION)			
SILICONE OIL, AMIDE, DOP [NOT DETECTABLE]								
MAX. 30 MG/G								
N/A								
MAX. 10 ⁷ - 10 ¹¹ OHMS					N/A			
MAX. 3 SECONDS					N/A			
WHITE COLOR, AMBIDEXTROUS, TEXTURED FINGERS WITH A BEADED CUFF					NATURAL COLOR, AMBIDEXTROUS, TEXTURED FINGERS WITH A BEADED CUFF			
min. 4.7		min. 4.7			min. 6.3			
min. 3.9		min. 3.9			min. 5.1			
min. 25		min. 30			min. 25		min. 23	
min. 19		min. 32			min. 16		min. 22	
min. 500					min. 750			
min. 400					min. 600			
PRODUCT SIZE	PALM WIDTH (mm)	PRODUCT CODE:	PALM WIDTH (mm)	PRODUCT CODE:	PALM WIDTH (mm)	PRODUCT CODE:	PALM WIDTH (mm)	PRODUCT CODE:
Extra-Small	70 ± 10	CE5-755-XS	70 ± 10	CE4-313-XS	75 ± 5	CE5-512-XS	75 ± 5	CE4-200-XS
Small	80 ± 10	CE5-755-S	80 ± 10	CE4-313-S	85 ± 5	CE5-512-S	85 ± 5	CE4-200-S
Medium	95 ± 10	CE5-755-M	95 ± 10	CE4-313-M	95 ± 5	CE5-512-M	95 ± 5	CE4-200-M
Large	110 ± 10	CE5-755-L	110 ± 10	CE4-313-L	105 ± 5	CE5-512-L	105 ± 5	CE4-200-L
Extra Large	120 ± 10	CE5-755-XL	120 ± 10	CE4-313-XL	115 ± 5	CE5-512-XL	115 ± 5	CE4-200-XL
Double Extra Large	130 ± 10	CE5-755-XXL†	130 ± 10	CE4-313-XXL†				
100 gloves per double, vacuum-sealed, polybags 10 polybags per poly lined carton of 1,000 gloves † XXL are packaged 90 gloves per polybag or 900 gloves per carton.					100 gloves per double, vacuum-sealed, polybags 10 polybags per poly lined carton of 1,000 gloves			



CELEBRATING 25 YEARS OF
QUALITY PROTECTION, INNOVATION,
SERVICE AND TRUST

The reason is the quality... the difference is Microflex.

See for yourself why Microflex® gloves are the first choice of exam glove users worldwide.

For FREE SAMPLES, please visit www.microflex.com or call 800.876.6866.

MICROFLEX®
THE MOST TRUSTED NAME IN GLOVES®

MICROFLEX CORPORATION | 2301 ROBB DRIVE, RENO, NV, 89523 | MAIN: (800) 876-6866 | FAX: (775) 746-6577
FOLLOW US ON FACEBOOK | CONNECT WITH US ON LINKEDIN | WATCH US ON YOUTUBE | VISIT US AT WWW.MICROFLEX.COM
ISO13485 CERTIFIED • C-TPAT MEMBER

© 2013 Microflex Corporation. All Rights Reserved. The Microflex name, logo, and tag line are registered trademarks. Printed in USA. COLL-BROCHURE-CE 2013.205 012413

Distributed in Australia and New Zealand by:

ThermoFisher
SCIENTIFIC

Australia: For customer service, call 1300-735-292

Visit us online at: www.thermofisher.com.au

New Zealand: For customer service, call 0800-933-966

Visit us online at: www.thermofisher.co.nz

©2015 Thermo Fisher Scientific Inc. All rights reserved.