

SOLUTIONS CATALOGUE

## RABS & ISOLATOR GLOVES

[vwr.com/ansell](http://vwr.com/ansell)



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## A WORLD LEADER IN PERSONAL PROTECTION SOLUTIONS

This is how our business works: an overview of Ansell's global sales, products and supply chain infrastructure.

**Sell 12 billion+** gloves each year

**No. 1 or 2 market share** in most key segments globally

Average medical professional personally wears nearly **1,200 pairs of Ansell gloves**

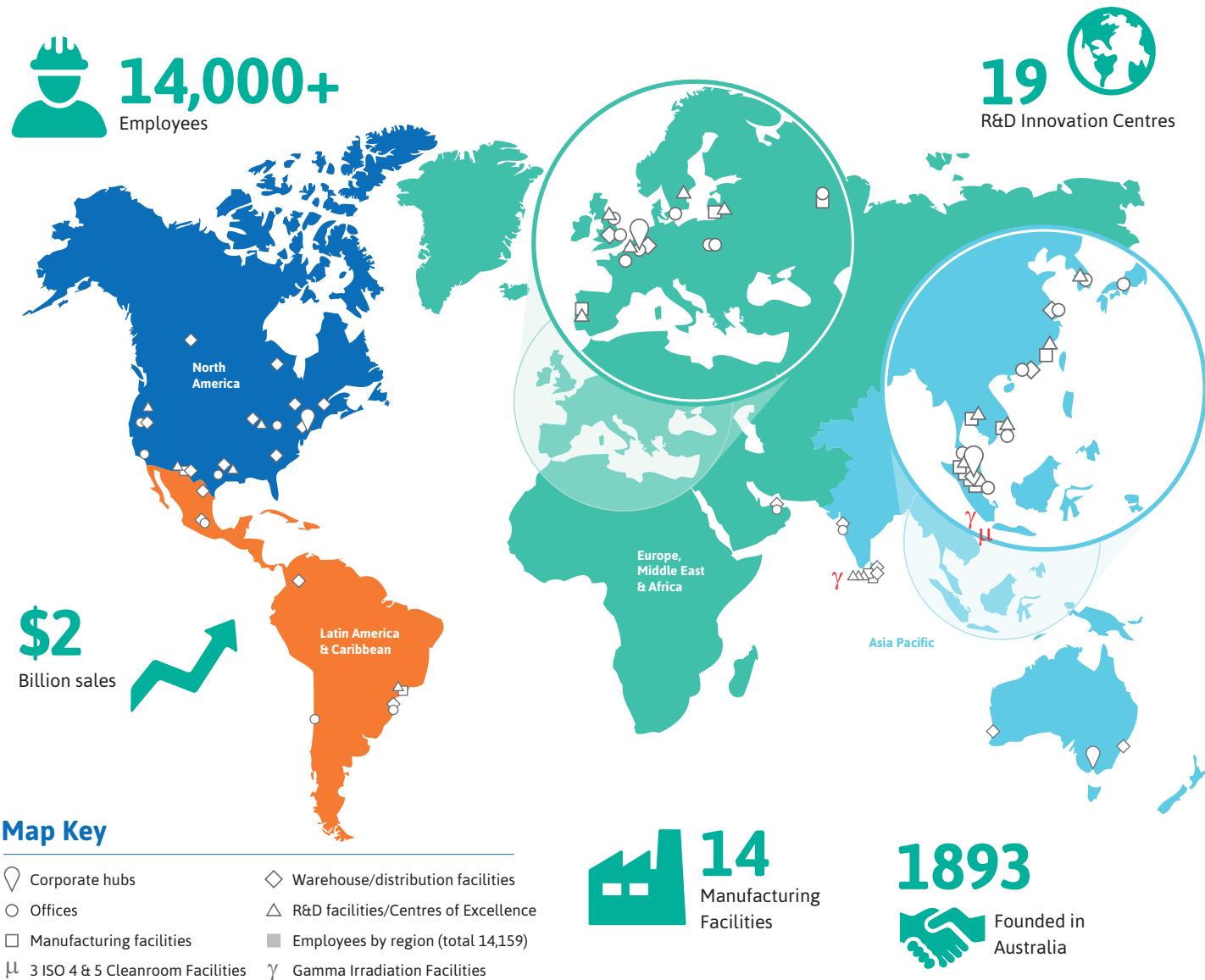
Ansell solutions protect more than **10 million** workers each day

Protection solutions provided to more than **25 specific industries**

### Dedicated to safety

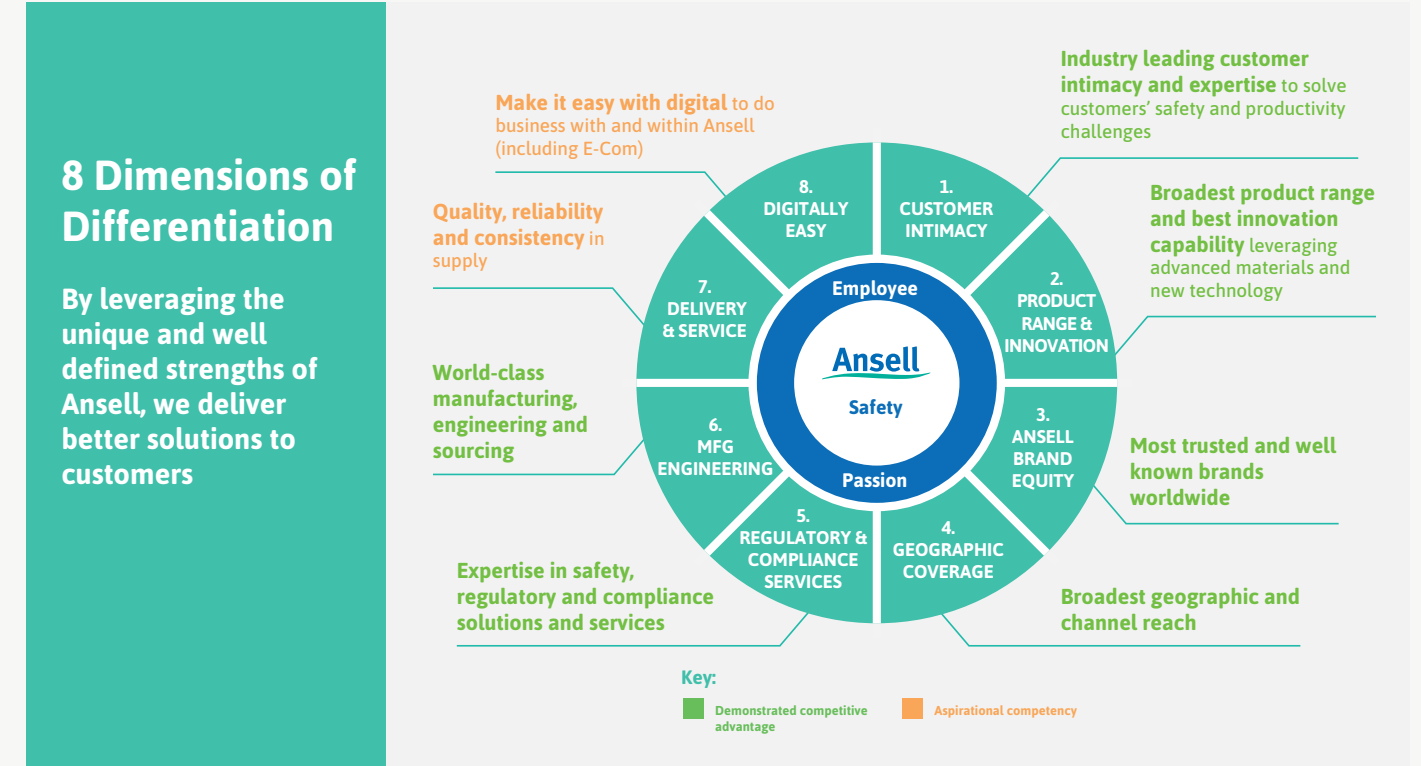
Ansell has been protecting people for over 125 years. We have created specialised teams to focus on the personal protection needs of workers in many industries. Our employees are dedicated to developing solutions that are based on the hazardous conditions that workers face on the job every day.

**Ansell is dedicated to worker safety:** we provide a comprehensive range of gloves and clothing to meet all worker and product protection requirements.



## WHY ANSELL?

We are innovators striving to create advanced solutions and technology that will solve the problems of workers, creating a safer and more protected world. Our vision is of a world where people enjoy optimal protection against the risks they are exposed to. Whether at work or outside the workplace, people require the right protection for the right situation. After all, what better guarantee is there of increased safety, security and productivity than adequate protection?



## OUR RESPONSIBLE AND RESPONSIVE STRATEGY & PURPOSE

Our Responsible and Responsive Strategy & Purpose illustrates how we are connecting care for the interests of all stakeholders to our business strategy.

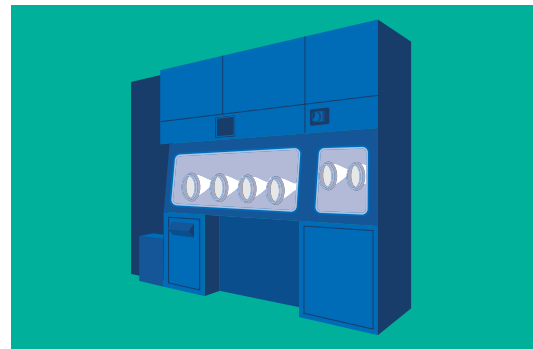
Over the past several years, Ansell has transformed the ways in which we incorporate sustainability into our business practices, and we will continue to advance further in this area in the years ahead.

<b>Better Society</b>	<ul style="list-style-type: none"> <li>Employees and wider workforce</li> </ul>	<ul style="list-style-type: none"> <li>Community</li> </ul>	<ul style="list-style-type: none"> <li>Business ethics</li> </ul>	<ul style="list-style-type: none"> <li>We care about our people and safety is our top priority</li> <li>We support our communities</li> <li>We play fair and conduct business ethically</li> </ul>
<b>Better Environment</b>	<ul style="list-style-type: none"> <li>Water</li> </ul>	<ul style="list-style-type: none"> <li>Energy and carbon</li> </ul>	<ul style="list-style-type: none"> <li>Materials and waste</li> </ul>	<ul style="list-style-type: none"> <li>We use natural resources with care</li> <li>We work to continually lower our GHG emissions</li> <li>We respect the local environment</li> </ul>
<b>Better Business</b>	<ul style="list-style-type: none"> <li>Customers</li> </ul>	<ul style="list-style-type: none"> <li>Suppliers</li> </ul>	<ul style="list-style-type: none"> <li>Investors</li> </ul>	<ul style="list-style-type: none"> <li>We provide our customers with safety and productivity solutions</li> <li>We demand the same high standards of our suppliers</li> <li>We reward investors with long-term sustainable growth</li> </ul>

## WHY ISOLATOR GLOVES & WHY THE ANSELL ISOLATOR GLOVES?

Gloveboxes play a vital role in protecting products from human or environmental contamination as well as protecting individuals and environments from workplace hazards. Designed to provide a controlled, enclosed work environment that is separated from workers by a barrier, they ensure the containment of sensitive and critical materials. **The environment inside a glovebox is typically sterile or clean and pressurized, either positively or negatively, to meet the specific requirements of the application.**

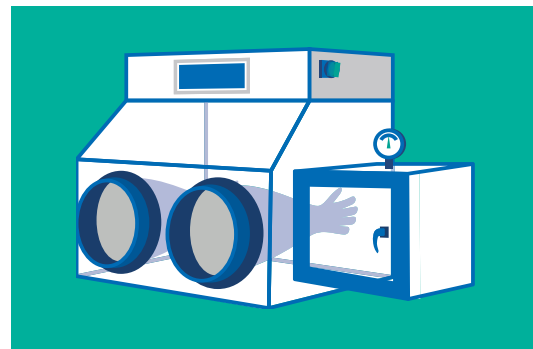
Gloveboxes are used widely across various industries, from pharmaceutical and electronics manufacturing, to food processing, nuclear applications and more. In pharmaceutical companies alone, it is common to find between 30 and 600 glove ports employed per site. **Due to the propensity of sensitive materials utilized in the life sciences, three main types of gloveboxes may be used; each is designed for the specific hazards present or level of cleanliness required.**



### Restricted Access Barrier Systems (RABS) and Isolators

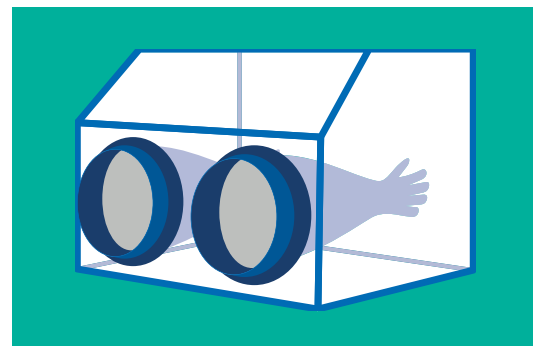
Designed to be physical barrier methods of product protection and containment that are used during manufacturing operations to separate operators from the process. Equipped with multiple ports for when inside access is required, both systems are used to manufacture many different parenteral drugs requiring advanced aseptic processing.

The main differences between an isolator and a RABS are in the air handling, the cleaning & bio-decontamination procedures, and the ISO cleanroom class operating.



### Isolation Gloveboxes

Designed to protect product (sterility) or personnel (chemical hazard), these gloveboxes have at least two ports and are for operators to do manual work inside the box, having features such as product transfer areas, controlled air filtration, positive or negative pressure airflow, and are often used for compounding chemo drugs or handling hazardous microbiological agents.



### Glovebox

Separates the operator from the object or item inside the glovebox. These units are limited to two ports and require operators to perform tasks manually inside the box. There are minimal sterility, particulate, airflow, and hazard control measures.

Gloveboxes are likely to be found in non-critical areas, academic settings, laboratories, etc., with infrequent glove changes required.



### Why is glove integrity crucial?

The gloves used inside any type of glovebox provide the **vital interface between the worker and the interior glovebox environment**, and must maintain a clean, reliable barrier while allowing the worker to effectively conduct manual tasks.

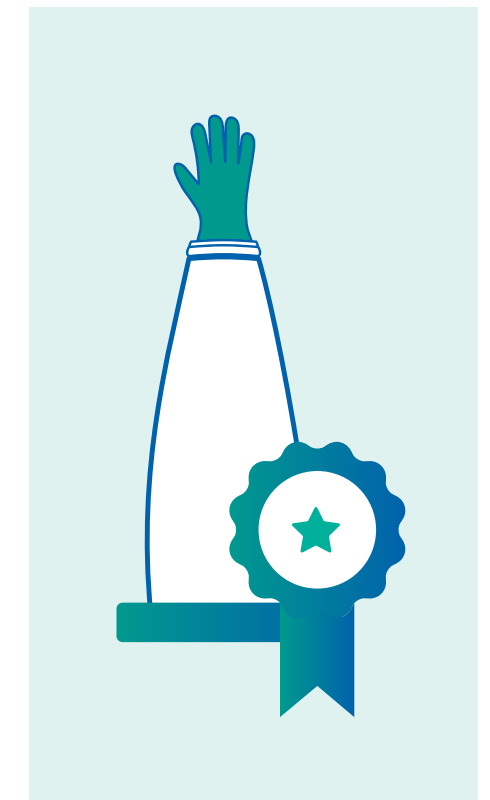
The glove's integrity is crucial, as a breach in containment puts workers and products at risk. Because gloves are the weakest protection point of the glovebox, **minimizing breaches in the gloves is a significant safety concern in daily operations across life sciences applications.**

### How to choose the right glove?

While glovebox gloves are available in a variety of materials and configurations, the primary factor in selecting a glove is the **material** from which it is constructed. Glove material must be approved for use among the hazards present, such as chemicals or radiation, and provide a cleanliness or sterility level suitable for the environment.

Glove material is then selected based on other **application-specific characteristics** including aging and anti-static properties, mechanical performance, FDA compliance and its ability to resist punctures or tears.

Ultimately, the glove should ensure the greatest possible **protection, comfort, fit and tactility** required to conduct manual tasks safely, effectively and efficiently for the duration of its use.

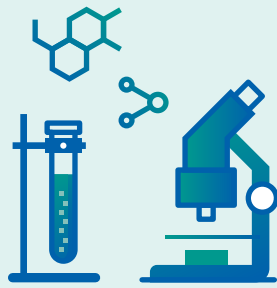
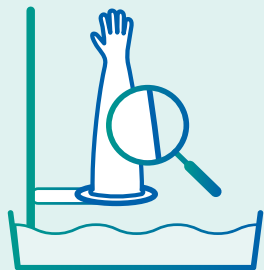





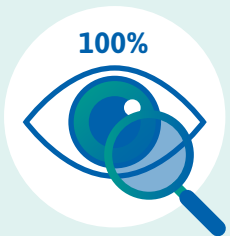

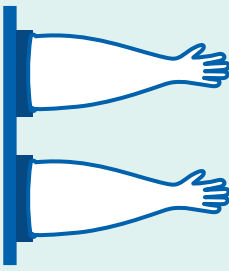

# YOUR CONFIDENCE. OUR PRIORITY.

We take our customers' trust very seriously, with dedicated Research, Development, Quality and Regulatory Departments, and through the use of advanced technologies and extensive testing, we work tirelessly to ensure that our solutions meet and comply with the most stringent standards and regulations. With our differentiated solutions, commitment to safety and quality you can rest assured our gloves meet your exacting requirements.

Ansell RABS and Isolator gloves have quality built in, because our quality control procedure is one of the most rigorous in the industry, including:






 <p><b>Inspection &amp; testing of raw materials</b></p>	 <p><b>Controls &amp; testing during manufacturing process (ensuring dipping, physical and chemical parameters are met)</b></p>	 <p><b>External accredited laboratory testing to comply with international standards</b></p>
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**Final inspection controls**

 <p><b>100% visual inspection</b></p>	 <p><b>Dimension controls</b></p>	 <p><b>Integrity test</b></p>	 <p><b>Labelling &amp; packing controls</b></p>
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## STANDARDS & CHEMICAL PERMEATION TESTING

Complying with Personal Protective Equipment Regulation, in February 2016, the European Council and European Parliament amended and approved a new PPE Regulation proposed by the European Commission. Regulation 2016/425 came into effect on 21st April 2018 with a one year transition phase, replacing Directive 89/686/EEC. Ansell RABS/Isolator gloves conform to the new European PPE Regulation 2016/425 and comply with the following standards;

	EN ISO 21420:2020: general requirements and test methods for protective gloves
	EN ISO 374: chemical and microorganism protection
	EN 388: mechanical protection
	EN 421: radioactive contamination and ionizing radiation protection
	EC Regulation No 1935/2004 and (EC) 2023/2006 – Materials & articles intended to come into contact with food*
	FDA Food Contact regulations (FDA Positive List) 21 CFR 177 Indirect Food Additives*

\*Dependent on the glove style/polymer, please check product details within this catalogue or on the product datasheet available on [www.ansell.com](http://www.ansell.com)

**Ansell RABS/Isolator gloves are tested against many concentrated acids, oxidizing chemicals, alcohols and disinfectants, using the ASTM F739 and EN 16523-1:2015 methods.** Our BioClean™ clean and clean/sterile range have been tested against the most stringent standard for chemotherapy drug handling – ASTM D 6978\*\*

\*\*Please see product validation pack for full permeation results.



A scientist wearing a white lab coat, safety glasses, and white gloves is working in a fume hood. He is pouring an orange liquid from a beaker into a graduated cylinder. The fume hood has a clear front panel and various pieces of equipment inside, including a beaker rack and a graduated cylinder. A warning label on the fume hood reads "HIGH PRESSURE - DO NOT OPEN".

## PORTFOLIO OVERVIEW



## THE MANUFACTURING PROCESS

The Ansell range of RABS/Isolator gloves are manufactured by dipping moulds into either an aqueous medium, referred to as emulsion dipping, or into a suitable solvent known as solution dipping. Emulsion dipping is the technique used for nitrile, neoprene and NRL gloves and solution dipping is the technique used for CSM, EPDM and EPDM+ gloves.

After dipping, the gloves are beaded to the required specification, and then enter the vulcanization oven. Vulcanising is a chemical process involving heating the polymer to achieve the desired mechanical properties – elasticity, resilience, tensile strength, viscosity etc.

If part of the BioClean™ range the gloves are then washed and dried in a controlled environment to remove particles and ionic content, and packed within a facility adhering to stringent quality controls required for the life sciences industry.



BioClean™ isolator gloves dipping line at the Ansell production facility

## GENERAL CHARACTERISTICS



NE

### Neoprene (polychloroprene)

#### MATERIAL BENEFITS

- FDA approved polymer
- Highly resistant to acids and alcohols
- Good comfort and flexibility
- Can withstand low temperatures to -30°C
- Offers good ESD properties



NBR

### Nitrile

#### MATERIAL BENEFITS

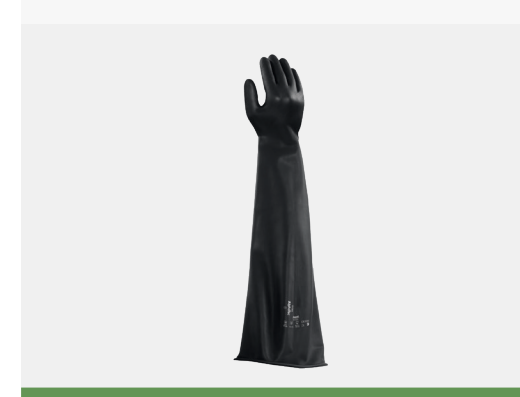
- FDA approved polymer
- Excellent anti-static properties
- Superior comfort & dexterity
- Performs well with VHP or IPA
- Superior puncture resistance
- Excellent chemical resistance

NRL

### NRL - Natural Rubber Latex

#### MATERIAL BENEFITS

- FDA approved polymer
- Highly resistant to acids and alcohols
- Good comfort and flexibility
- Can withstand low temperatures to -30°C
- Cost effective



Tb

### EPDM (ethylene-propylene-diene-rubber)

#### MATERIAL BENEFITS

- FDA approved polymer; Excellent ESD properties
- Halogen-free
- Withstands temperatures up to 130°C
- Excellent chemical resistance
- High resistance to aging from exposure to UV and ozone
- Compatible with steam sterilization
- Performs well with sterilization processes (Gamma and Beta) and VHP



Tw

### EPDM+ (ethylene-propylene-diene-rubber)

#### MATERIAL BENEFITS

- FDA approved polymer
- Excellent ESD properties
- Withstands autoclaving up to 50 times
- Double-layer breach detection system
- Withstands temperatures up to 130°C
- Excellent chemical resistance
- High resistance to aging from exposure to UV and ozone
- Compatible with steam sterilization
- Performs well with sterilization processes (Gamma and Beta) and VHP

Y

### CSM (chlorosulfonated polyethylene)

#### MATERIAL BENEFITS

- High level of resistance against acids and alcohols
- Can withstand temperatures of up to 120°C
- Excellent chemical resistance
- Greater resistance to aging from exposure to UV and ozone
- Performs well with sterilization processes (Gamma and Beta) and VHP





## PACKAGING EXPLANATION & IMAGERY

### Ansell BioClean™ Nitrile Isolator/RABS glove Packaging:

**1 GGL15NIT59**  
**CLEAN & STERILE NITRILE GLOVE**  
Gant Propre & Stérile en Nitrile

**2** Quantity: 2 x 20 (40 Pieces)  
Quantité: 2 x 20 (40 pièces)  
Length: 33" (840mm)  
Longueur: 33" (840mm)  
Size: 9.75 Ambidextrous  
Taille: 9.75 Ambidextrous

Style: 5 Fingers  
Code: 5 doigts  
Port Size: 6"  
Taille du rond de gant: 6"  
Cuff Thickness: 20mil/0.50mm  
Épaisseur de la manchette: 20mil/0.50mm

Standards Normes: EN 388; EN 420; EN 374  
Particulates Particules: IEST-RP-CC 005.4  
Extractables Extractibles: IEST-RP-CC 005.4  
Sterility Stérilité: ISO 11137 SAL 10<sup>-6</sup>

LOT  
BATCH



1 50 36692 00697 8

**3 EU GMP GRADE A COMPATIBLE - FOR INDUSTRIAL USE ONLY.**  
EU GMP grade A Compatibilité - Pour usage industriel uniquement.

**4** EN ISO 374-1 /Type A EN ISO 374-5 EN 388 EN 421  
AJKNOT VIRUS 4101X  
CE 0493 STERILE R UK 0321

**5** MADE IN MALAYSIA Fabriquée en Malaisie  
FINAL PRODUCER Nitritex (M) Sdn Bhd, No.2, Jalan Jurunilai U1/20, Seksyen U1, Hicom Glenmarie Industrial Park, 40150 Shah Alam, Selangor, Malaysia  
EU & UK LEGAL MANUFACTURER Ansell Healthcare Europe NV, Riverside Business Park, Blvd International, 55, 1070 Brussels, Belgium  
UK IMPORTERS Nitritex Ltd, Ground Floor, 15 Kings Court, Willie Snaith Road, Newmarket, Suffolk, CB8 7SG, UK  
Ansell (U.K.) Limited, Building C, Willerby Hill Business Park, Willerby, Hull, HU10 0FE, UK  
Ansell Healthcare Products LLC, 111 Wood Avenue South, suite 210, Iselin, NJ 08830, USA  
2109/GGL15NIT59/CL4

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**Ansell**  
www.ansell.com



www.bioclean.com

Shipper/Carton label



Inner Box

The BioClean™ range of products are piece packed (excluding GSG which are pair packed) triple bagged in linear tear packaging which is particulate free, and easy to open even whilst wearing gloves.

The bagged products are then packed in polyethylene boxes, which further reduces the risk of any particulates being generated, before undergoing sterilization via gamma irradiation which guarantees a SAL (Sterility Assurance Level) of 10<sup>-6</sup> (applicable to sterile products only).



Glove Bag

## Code & Label Explanation:

**1 GGL15NIT59**

STERILIZATION	TYPE	PORT SIZE	MATERIAL	STYLE	SIZE	DESIGN
<b>G</b>	<b>GL</b>	<b>15</b>	<b>NIT</b>	<b>5</b>	<b>9</b>	
(G) Gamma Sterilized	(GL) Glove	15mm (6")	(NIT) Nitrile	5 Fingers	9 - Hand Size	-
(C) Clean	(HG) High Grip	30mm (10")		(M) Mitten	26 - Length	(A) Ambidextrous
	(S) Sleeve	36mm (12")		(PP) Per Piece	80 - Hand Size	
	(SG) Sleeve/ Glove System	10mm (10")		(XL) Extra Long Length	85 - Hand Size	
		33mm (10")			M - Hand Size	

**2 Product Attributes**

- Hand Size
- Length
- Style
- Port Size
- Cuff Thickness

**3 COMPATIBILITY**

**4 Product Certifications**

- European Regulation 2016/425 Module D Certification Notified Body number 0493
- UKCA 0321
- EN ISO 374-1 pictogram
- EN ISO 374-5 VIRUS pictogram
- EN 421 (protection from radio active contamination) pictogram
- Suitable for use with foodstuffs pictogram

**5 Manufacture Details**

- Final producer, EU & UK legal manufacturer & importers addresses
- Ansell logo, address and disclaimers





NBR

## Nitrile gloves, mitten & sleeve glove system

**Nitrile** is a synthetic, non-solvent based, FDA approved polymer and is an ideal material for parenteral drug manufacturing. With excellent anti-static properties preventing the buildup of static electricity, Nitrile is ideal for use with solvents and powders. Nitrile can withstand temperatures of up to 120°C and is autoclave compatible. It can also be sterilized by Gamma Irradiation and sanitized with Vaporised Hydrogen Peroxide (VHP) and Isopropyl Alcohol (IPA). Ansell's Nitrile gloves are washed, processed and packaged within a cleanroom environment, ensuring the gloves are an ultra-low contamination risk before being introduced into the isolator glove box.

Nitrile has major benefits over traditional materials in physical performance with superior puncture resistance, dexterity and user comfort, it also offers excellent chemical resistance providing extended permeation protection against many cytotoxins and the ability to maintain its properties after gamma irradiation. Nitrile better meets the needs of life sciences applications with significantly improved comfort, protection and performance.

## BioClean™ Clean/Validated Sterile & Clean/Non-Sterile Gloves

BioClean™ validated sterile RABS and isolator gloves are manufactured from nitrile with incredibly low levels of particles and excellent ESD properties. Nitrile offers superior puncture resistance, dexterity and user comfort, and excellent chemical resistance providing extended permeation protection against many cytotoxins and the ability to maintain its properties after gamma irradiation. Designed for use in product contact areas, our GGL/CGL range are available in a range of port sizes.

Material	Nitrile
Colour	White
Glove design	5 Fingers Ambidextrous
Surface	Smooth
Cuff style	Beaded
Length	840mm/33in
Finger thickness	0.60mm/24mil
Palm thickness	0.50mm/20mil
Cuff thickness	0.50mm/20mil
Compatibility	ISO Class 4 & EU GMP Grade A Compatible (Sterile only)
Packaging	<b>Triple bagged:</b> One piece per sealed inner PE bag; one inner bag per sealed second inner PE bag; one second inner bag per sealed outer PE bag; 20 outer bags per lined inner white Correx polyethylene box (20 pieces)
Re-order code: Port size	GGL15NIT59: 6in/152mm GGL20NIT59: 8in/203mm GGL10NIT59: 10in/254mm GGL36NIT59: 12in/305mm
	CGL20NIT59: 8in/203mm CGL10NIT59: 10in/254mm CGL36NIT59: 12in/305mm

### MATERIAL BENEFITS

- FDA approved polymer
- Excellent anti-static properties
- Suitable for autoclaving
- Performs well with VHP and IPA
- Superior puncture resistance
- Excellent chemical resistance

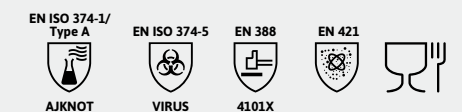
### KEY FEATURES

- Tested against ASTM D6978-05 for handling chemo drugs<sup>1</sup>
- Ultra-clean surface ensures product protection
- 100% inspected and water leak tested
- Cleanroom laundered and packaged in ISO Class 4 facility
- GGL – validated sterile with a SAL (Sterility Assurance Level) 10<sup>-6</sup>

<sup>1</sup>Please see **Product Disclaimer and Warning**



### PERFORMANCE RATINGS





## BioClean™ Clean/Validated Sterile & Clean/Non-Sterile Mitten

BioClean™ validated sterile RABS mittens are manufactured from nitrile with incredibly low levels of particles and excellent ESD properties. Nitrile offers superior puncture resistance, dexterity and user comfort, and excellent chemical resistance providing extended permeation protection against many cytotoxins and the ability to maintain its properties after gamma irradiation. Designed to enable quick production line intervention by operators.

<b>Material</b>	Nitrile
<b>Colour</b>	White
<b>Glove design</b>	Mitten
<b>Surface</b>	Smooth
<b>Cuff style</b>	Beaded
<b>Length</b>	840mm/33in
<b>Finger thickness</b>	0.60mm/24mil
<b>Palm thickness</b>	0.50mm/20mil
<b>Cuff thickness</b>	0.50mm/20mil
<b>Compatibility</b>	ISO Class 4 & EU GMP Grade A Compatible (Sterile only)
<b>Packaging</b>	<b>Triple bagged:</b> One piece per sealed inner PE bag; one inner bag per sealed second inner PE bag; one second inner bag per sealed outer PE bag; 20 outer bags per lined inner white Correx polyethylene box (20 pieces)
<b>Re-order code: port size</b>	GGL30NITM9: 10in/254mm CGL30NITM9: 10in/254mm

### MATERIAL BENEFITS

- FDA approved polymer
- Excellent anti-static properties
- Suitable for autoclaving
- Performs well with VHP or IPA
- Superior puncture resistance
- Excellent chemical resistance

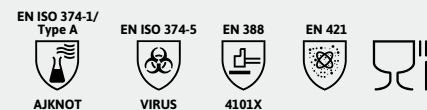
### KEY FEATURES

- Design enables fast and effective production line interventions
- Tested against ASTM D6978-05 for handling chemo drugs<sup>1</sup>
- Ultra-clean surface ensures product protection
- 100% inspected and water leak tested
- Cleanroom laundered and packaged in ISO Class 4 facility
- GGL30NITM9 – validated sterile with a SAL (Sterility Assurance Level) 10<sup>-6</sup>

<sup>1</sup>Please see **Product Disclaimer and Warning**



### PERFORMANCE RATINGS



## BioClean™ GSL Clean & Validated Sterile Sleeve

BioClean™ validated sterile RABS and Isolator sleeves are manufactured from nitrile with incredibly low levels of particles and excellent ESD properties. Nitrile offers superior puncture resistance, excellent chemical resistance and the ability to maintain its properties after gamma irradiation. The RABS and Isolator sleeves fit most cuff ring systems and are available in a range of port sizes.

<b>Material</b>	Nitrile
<b>Colour</b>	White
<b>Surface</b>	Smooth
<b>Cuff style</b>	Beaded
<b>Length</b>	660mm/26in
<b>Cuff thickness</b>	0.50mm/20mil
<b>Compatibility</b>	ISO Class 4 & EU GMP Grade A Compatible
<b>Packaging</b>	<b>Triple bagged:</b> One piece per sealed inner PE bag; one inner bag per sealed second inner PE bag; one second inner bag per sealed outer PE bag; 20 outer bags per lined inner white Correx polyethylene box (20 pieces)
<b>Re-order code: port size (in/mm)</b>	GSL15NITPP26: 6in/152mm GSL20NITPP26: 8in/203mm GSL33NITPP26: 10in/254mm GSL36NITPP26: 12in/305mm

### MATERIAL BENEFITS

- FDA approved polymer
- Excellent anti-static properties
- Suitable for autoclaving
- Performs well with VHP or IPA
- Superior puncture resistance
- Excellent chemical resistance

### KEY FEATURES

- Cuff diameter 90mm/3.5"
- Ultra-clean surface ensures product protection
- 100% inspected
- Cleanroom laundered and packaged in ISO Class 4 facility
- SAL (Sterility Assurance Level) 10<sup>-6</sup>





## BioClean™ Clean & Validated Sterile Sleeve Glove System

BioClean™ validated sterile RABS and Isolator Sleeve/Glove Systems include a nitrile sleeve with incredibly low levels of particles and excellent ESD properties. Attached to the sleeve by a channel ring and 'O' ring system is a hand specific polychloroprene glove in either size 8.0 or 8.5. The ready to use out of the bag system requires no further processing prior to initial use.

<b>Material</b>	Nitrile sleeve/polychloroprene glove
<b>Colour</b>	White sleeve/Natural glove
<b>Glove design</b>	5 fingers hand specific
<b>Surface</b>	Textured glove
<b>Cuff style</b>	Beaded
<b>Length</b>	813mm/32in (Full system glove & sleeve)
<b>Glove finger thickness</b>	0.18mm/7.09mil
<b>Glove palm thickness</b>	0.15mm/5.91mil
<b>Glove cuff thickness</b>	0.11mm/4.33mil
<b>Compatibility</b>	ISO Class 4 & EU GMP Grade A Compatible
<b>Packaging</b>	<b>Pair Packed:</b> One system – consisting of sleeve, size 8.0 or 8.5 glove (marked L) and channel ring/O-ring assembly packed in inner PE bag; One system – consisting of sleeve, size 8.0 or 8.5 glove (marked R) and channel ring/O-ring assembly packed in inner PE bag; two inner bags (two systems – one L & one R) packed per outer PE bag; 10 outer bags (20 systems/10 pairs) per lined white Correx box.
<b>Re-order code: port size   glove size</b>	GSG10NIT80: 10in/254mm   8.0
	GSG10NIT85: 10in/254mm   8.5

### KEY FEATURES & BENEFITS

- Nitrile sleeve offers superior puncture resistance
- Nitrile and polychloroprene provide excellent chemical resistance
- Glove and sleeve tested against ASTM D6978-05 for handling chemo drugs<sup>1</sup>
- Ultra-clean surface ensures product protection
- Sleeve 100% inspected
- Glove AQL 0.65
- Cleanroom laundered and packaged in ISO Class 4 facility
- SAL (Sterility Assurance Level) 10<sup>-6</sup>

<sup>1</sup> Please see **Product Disclaimer and Warning**



### PERFORMANCE RATINGS





## HOW TO CONNECT A GLOVE TO AN ISOLATOR SLEEVE — INSTRUCTION SHEET

Please use the instructions below as a guide to attaching a glove (e.g BFAP) to an isolator sleeve (e.g GSL33NITPP26) with a BBCO-100 connector.



1 Prepare the isolator sleeve and connector ready for assembly, with the sleeve inside out



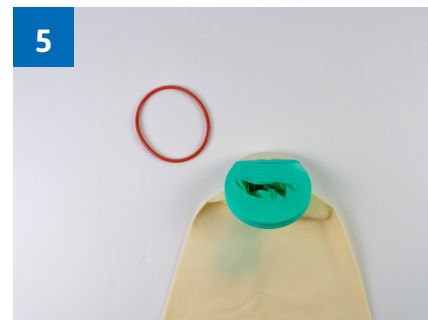
2 Take the sleeve and slide the connector over the bottom of it



3 Now, pull the bottom of the sleeve over the connector and tuck under the connector so that the sleeve is secured in place



4 Take the glove and feed it through the cuff connector, fingers first



5 Pull the cuff of the glove over the connector



6 Continue as in photo #5, ensuring to completely cover the sleeve cuff connector with the cuff of the glove



7 Take the silicone rubber O-ring and fix into groove of connector over the glove



8 Turn the assembled sleeve and glove the correct way round



9 Finally, place hand into fully assembled sleeve/glove system



### PERFORMANCE RATINGS



## BioClean™ Clean & Validated Sterile Extra-Long Sleeve Glove System

BioClean™ validated sterile RABS and Isolator Sleeve/Glove System GSG10NITXLMA is an extra-long system measuring 36"/914mm to reach deep inside the RAB or isolator. The system consists of a nitrile sleeve with incredibly low levels of particles and excellent ESD properties. Attached to the sleeve by a channel ring and 'O' ring system is an ambidextrous polychloroprene glove size 8.0-8.5. The ready to use out of the bag system requires no further processing prior to initial use.

Material	Nitrile sleeve/polychloroprene glove
Colour	White sleeve/Green glove
Glove design	5 fingers Ambidextrous
Surface	Textured glove
Cuff style	Beaded
Length	914mm/36in (Full system glove & sleeve)
Glove finger thickness	0.12mm/4.72mil
Glove palm thickness	0.10mm/3.94mil
Glove cuff thickness	0.07mm/2.76mil
Compatibility	ISO Class 4 & EU GMP Grade A
Packaging	<b>Pair Packed:</b> One system – consisting of sleeve, size 8.0-8.5 ambidextrous glove and channel ring/O-ring assembly packed in inner PE bag; One system – consisting of sleeve, size 8.0-8.5 ambidextrous glove and channel ring/O-ring assembly packed in inner PE bag; two inner bags (two systems) packed per outer PE bag; 10 outer bags (20 systems/10 pairs) per lined white Correx box.
Re-order code: port size   glove size	GSG10NITXLMA: 10-12in/254-305mm   8.0 - 8.5

### KEY FEATURES

- Nitrile sleeve offers superior puncture resistance
- Nitrile and polychloroprene provide excellent chemical resistance
- Glove and sleeve tested against ASTM D6978-05 for handling chemo drugs<sup>1</sup>
- Ultra-clean surface ensures product protection
- Sleeve 100% inspected
- Glove AQL 0.65
- Cleanroom laundered and packaged in ISO Class 4 facility
- SAL (Sterility Assurance Level) 10<sup>-6</sup>

<sup>1</sup>Please see [Product Disclaimer and Warning](#)



## PACKAGING EXPLANATION & IMAGERY

### Ansell AlphaTec® Isolator glove packaging:



Glove Stamp

# AlphaTec®

## 85-300 3

### 9.5(L) - 11(XL) | CE0493

UKCA 0321	EN ISO 374-5 VIRUS	EN 388 3101A	EN ISO 374-1/TYPE B A M P <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">4</span>
<b>Material Composition :</b> Chlorosulfonated Polyethylene			

1 **8Y1632A**  
**Port Size:** 8" / 200 mm  
**Material:** Chlorosulfonated Polyethylene  
**Glove Film Thickness:** 16 mil / 0.40 mm  
2 **Glove Length:** 31.5" / 800 mm  
**Hand Configuration:** Ambidextrous

**Quantity:**  
1 Pair

0 076490 456566

**LOT#**

---

**Europe:** Ansell Healthcare Europe NV  
Riverside Business Park, Blvd International, 55  
1070 Brussels, Belgium T +32 2 528 74 00 F +32 2 528 74 01

**United States:** Ansell Healthcare Products LLC  
111 Wood Avenue South, Suite 210, Iselin, NJ 08830, USA  
T +1 800 800 0444 F +1 800 800 0445

**Canada:** Ansell Canada Inc.  
105 Laurier Street, Cowansville QC J2K 2K8  
Tel. +1 800 363 8340 Fax +1 888 267 3551

**Asia:** Ansell Global Trading Center (Malaysia)  
Sdn Bhd Prima 6, Prima Avenue Block 3512,  
Jalan Teknokrat 6 63000, Cyberjaya Selangor, Malaysia  
T: +60 3 8310 6688 F: +60 3 8318 6699

**Australia:** Ansell Limited  
Level 3, 678 Victoria Street, Richmond, Vic. 3121  
T +61 1800 337 041 F +61 1800 803 578

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The AlphaTec® range of products are pair packed per sealed black plastic bag to avoid any UV and fluorescent light exposure. 10 pairs are packed per cardboard shipper carton.

## Code & Label explanation :

1
8Y1632A

PORT SIZE	MATERIAL	THICKNESS	LENGTH	HAND SHAPE
8	Y	16	32	A
8"	(Y) CSM	16 mil (0.40mm)	32" (813mm)	A Ambidextrous
10"	(N) Neoprene	20 mil (0.50mm)		
12"	(Tb) EPDM	24 mil (0.60mm)		
	(Tw) EPDM plus	30 mil (0.76mm)		
	(R) NRL			

2

### Product Attributes

- Size
- Length
- Style
- Port Size
- Cuff Thickness

3

### Product Code

85-300 CSM Medium Weight Isolator Box Glove

4

### Product Certifications

- European Regulation 2016/425 Module D Certification Notified Body number 0493
- UKCA mark
- EN ISO 374-1 pictogram
- EN ISO 374-5 VIRUS pictogram
- EN 388 pictogram

5

### Manufacture Details

- Made In Country
- Ansell logo, Addresses and Disclaimers





# Natural Rubber Latex gloves

**Natural rubber latex** is an extremely common and versatile glove material employed across a multitude of industries and applications. An organic compound with highly elastic properties, NRL is prized for its exceptional comfort and fit. Since it meets FDA compliance for food processing, it may safely be used in slicing, packaging, filling and capping applications. NRL is easy to manufacture and is readily available in a range of low-cost price points.

In glovebox applications, however, NRL does not stand up to multiple autoclave cycles and may age more rapidly than other materials. The largest detractor to using NRL gloves in gloveboxes, though, is the health challenge they pose to a large number of workers who experience allergic reactions ranging from skin irritation to anaphylaxis, a potentially life-threatening condition. Workers can be affected from direct contact as well as by inhaling airborne latex particles released when someone removes latex gloves. While hand dermatitis is the most common condition associated with latex allergy, reactions can worsen or individuals who were previously not allergic to latex may become sensitized with repeated latex exposure.

Overall, NRL gloves deliver excellent physical performance in most applications, but short glove life, lack of heat and chemical resistance and worker allergies mean it is not suitable for some applications.



### PERFORMANCE RATINGS



## AlphaTec® NRL

AlphaTec® RABS and Isolator Latex (NRL) gloves offer effective protection for heavy duty physical environments, including great defence against tears and abrasions, and good protection against cuts and punctures. An organic compound with highly elastic properties, NRL is prized for its exceptional comfort and fit. Since it meets FDA compliance for food processing, it may safely be used in slicing, packaging, filling and capping applications. NRL is highly resistant to most acids, alkalis, alcohols, aldehydes and ketones. Available in two thicknesses (0.51 & 0.76mm) providing increased durability, augmenting chemical and physical resistance. Translucent and unlined for effective cleaning.

<b>Material</b>	NRL (Natural Rubber Latex)
<b>Colour</b>	Natural
<b>Glove design</b>	5 Fingers Ambidextrous
<b>Surface</b>	Smooth
<b>Cuff style</b>	Beaded
<b>Length</b>	711mm/28in, 787mm/31in, 813mm/32in
<b>Cuff thickness</b>	0.51mm/20mil or 0.76mm/30mil
<b>AQL</b>	0.65
<b>Packaging</b>	1 pair per black sealed plastic bag; 10 pairs per shipper carton

Re-order code	Port size (in/mm)	Thickness (mm/mil)	Length (in/mm)	Glove size
55100080	6/150	0.51/20	28/711	M/8.0
55100090	6/150	0.51/20	28/711	L/9.0
55100100	6/150	0.51/20	28/711	XL/10.0
55101080	6/150	0.76/30	28/711	M/8.0
55101090	6/150	0.76/30	28/711	L/9.0
55101100	6/150	0.76/30	28/711	XL/10.0
55104100	8/200	0.51/20	32/813	XL/10.0
55105100	8/200	0.76/30	32/813	XL/10.0
55107100	9/225	0.76/30	31/787	XL/10.0
55109100	10/250	0.76/30	32/813	XL/10.0
55110100	12/300	0.51/20	32/813	XL/10.0

### MATERIAL BENEFITS

- FDA approved polymer
- Highly resistant to acids and alcohols
- Good comfort and flexibility
- Can withstand low temperatures to -30°C
- Cost effective

### KEY FEATURES

- Increased thickness (0.76 mm) for added durability
- Available port sizes fit most isolator glove boxes
- Variety of lengths and hand sizes to suit multiple applications





NE

## Neoprene gloves

**Neoprene**, also known as polychloroprene, is a family of synthetic latex products produced by the polymerization of chloroprene.

In glovebox applications, neoprene gloves deliver good elasticity and tactile comfort. Neoprene is somewhat flame retardant and can withstand a fair number of decontamination cycles before requiring replacement. FDA compliant for food processing applications, Neoprene also offers better chemical resistance against a range of chemicals.

Overall, neoprene's increased chemical resistance without the risk of allergies (such as NRL) make it a more suitable choice for a variety of life sciences glovebox.

### AlphaTec® NE

AlphaTec® RABS and Isolator Neoprene gloves provide effective protection for medium duty chemical environments and deliver exceptional chemical resistance against most acids, alcohols, oils, lubricants and hydrocarbons. Neoprene ages better than NRL; it withstands a fairly comparable number of decontamination cycles before requiring replacement and offers good resistance to ozone and UV rays. Neoprene provides good flexibility and comfort, with strong physical protection against abrasions, cuts and punctures. FDA compliant for food processing applications and designed for use in product contact areas, our Neoprene range is available in two thicknesses and a range of port sizes.

<b>Material</b>	Neoprene/Polychloroprene
<b>Colour</b>	Black
<b>Glove design</b>	5 Fingers Ambidextrous
<b>Surface</b>	Smooth
<b>Cuff style</b>	Beaded
<b>Length</b>	711mm/28in or 813mm/32in
<b>Cuff thickness</b>	0.51mm/20mil or 0.76mm/30mil
<b>AQL</b>	0.65
<b>Packaging</b>	1 pair per black sealed plastic bag; 10 pairs per shipper carton

Re-order code	Port size (in/mm)	Thickness (mm/mil)	Length (in/mm)	Glove size
55300080	6/150	0.51/20	28/711	M/8.0
55300090	6/150	0.51/20	28/711	L/9.0
55300100	6/150	0.51/20	28/711	XL/10.0
55301090	7/175	0.51/20	28/711	L/9.0
55301100	7/175	0.51/20	28/711	XL/10.0
55302100	8/200	0.51/20	32/813	XL/10.0
55303100	8/200	0.76/30	32/813	XL/10.0
55305100	10/250	0.51/20	32/813	XL/10.0
55306100	10/250	0.76/30	32/813	XL/10.0
55307100	12/300	0.51/20	32/813	XL/10.0
55308100	12/300	0.76/30	32/813	XL/10.0

#### MATERIAL BENEFITS

- FDA approved polymer
- Highly resistant to acids and alcohols
- Good comfort and flexibility
- Can withstand low temperatures to -30°C

#### KEY FEATURES

- Latex-free
- Heavyweight thickness (0.76 mm) for added durability
- Available port sizes fit most isolator glove boxes
- Variety of lengths and hand sizes to suit multiple applications



#### PERFORMANCE RATINGS







## CSM gloves (Chlorosulfonated polyethylene)

**CSM** is a synthetic material, and gloves constructed of it offer a combination of excellent comfort and extreme chemical protection, making them ideally suited for use in critical, heavy duty environments. Available in both medium and heavy weights, the inherent thickness of CSM gloves increases their durability and augments the glovebox's physical barrier, while their soft, flexible attributes lend to worker comfort and muscle support to improve productivity.

CSM delivers a high level of resistance against concentrated acids and bases such as nitric acid, hydrochloric acid and ammonia, as well as many oxidizing chemicals and alcohols, and can withstand temperatures of up to 120°C, making it an excellent choice among high heat or flammable solvents. Because CSM gloves deliver improved gamma performance as well as significantly greater resistance to aging from exposure to UV and ozone compared to neoprene and latex gloves, their use reduces the frequency of glove replacement and downtime.

CSM glove material is white, making contamination easy to detect, but it does not meet FDA standards. Overall, CSM gloves deliver increased worker comfort and product protection which in turn afford greater durability, fewer glove changes and excellent performance in heavy-duty, high-hazard environments.

## AlphaTec® CSM

AlphaTec® CSM RABS and Isolator gloves are designed for high resistance against concentrated acids and bases; and are made from soft, flexible material - Chlorosulfonated Polyethylene - designed for ease of use. The inherent thickness of CSM gloves increases their durability and augments the RABS/Isolator physical barrier, while their soft, flexible attributes lend to worker comfort and muscle support to improve productivity. CSM delivers a high level of resistance against concentrated acids and bases such as nitric acid, hydrochloric acid and ammonia, as well as many oxidizing chemicals and alcohols, and can withstand temperatures of up to 120°C, making it an excellent choice among high heat or flammable solvents. CSM has significantly greater resistance to aging from exposure to UV and ozone compared to neoprene and latex gloves. Designed for use in product contact areas, our CSM range are available in a range of port sizes, thicknesses and hand sizes.

<b>Material</b>	CSM (Chlorosulfonated Polyethylene)
<b>Colour</b>	White
<b>Glove design</b>	5 Fingers Ambidextrous
<b>Surface</b>	Smooth
<b>Cuff style</b>	Beaded
<b>Length</b>	800mm/32in
<b>Cuff thickness</b>	0.4mm/16mil or 0.6mm/24mil
<b>AQL</b>	1.5
<b>Packaging</b>	1 pair per black sealed plastic bag; 10 pairs per shipper carton

Re-order code	Port size (in/mm)	Thickness (mm/mil)	Glove Size
85300110	8/203	0.4/16	XL/11.0
85300095	8/203	0.4/16	L/9.5
85301110	8/203	0.6/24	XL/11.0
85301095	8/203	0.6/24	L/9.5
85302110	10/250	0.4/16	XL/11.0
85302095	10/250	0.4/16	L/9.5
85303110	10/250	0.6/24	XL/11.0
85303095	10/250	0.6/24	L/9.5
85304110	12/300	0.4/16	XL/11.0
85304095	12/300	0.4/16	L/9.5
85305110	12/300	0.6/24	XL/11.0
85305095	12/300	0.6/24	L/9.5

### MATERIAL BENEFITS

- Soft, flexible material designed for ease of use
- Resists ageing from exposure to oxygen, UV rays and ozone
- Withstands temperatures up to 120°C
- White coloring for easy detection of contamination

### KEY FEATURES

- Designed for high resistance against concentrated acids and bases
- Increased thickness (0.6 mm) for added durability
- Available port sizes to fit most isolator glove boxes



### PERFORMANCE RATINGS







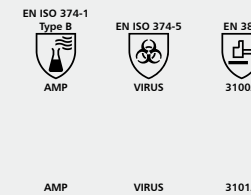
## EPDM+ gloves (Ethylene-propylene- diene-rubber)

**EPDM+** is a premium FDA-approved material (FDA CFR 21 Positive List) designed to withstand repeated autoclave sterilization up to 50 times, significantly reducing the need for glove replacement in comparison to standard latex, neoprene or CSM gloves. EPDM+ is resistant against hydrogen peroxide solutions and common disinfecting chemicals, and withstands temperatures up to 130°C to ensure longevity even after dozens of sterilizations, making it durable and long lasting.

EPDM+ is also unique in its double-layer breach detection system. The glove's dual-tone coloring — a white outer material covering a black inner layer — allows for easy, instant visual integrity inspection. The glove's white external layer makes it ideally suited for pharmaceutical applications where visual identification of breaches and contaminants is vital.



### PERFORMANCE RATINGS



## AlphaTec® EPDM+

AlphaTec® EPDM+ RABS and Isolator Gloves manufactured from EPDM (Ethylene Propylene Diene Rubber) have a dual-layered breach detection system: unique white material on a black lining allows for easy, instant visual integrity inspection. EPDM+ is resistant against hydrogen peroxide solutions and common disinfecting chemicals and withstands temperatures up to 130°C to ensure longevity even after dozens (up to 50) of autoclave sterilizations, making it durable and long lasting. EPDM+ gloves deliver not only extreme protection and ruggedness, but also a high level of comfort, dexterity and tactile sensitivity to enable fine manual tasks. EPDM+ also offers strong chemical resistance and physical properties and resists ageing from exposure to oxygen, UV rays and ozone.

<b>Material</b>	EPDM+ (Ethylene Propylene Diene Rubber)
<b>Colour</b>	Black inner/white outer
<b>Glove design</b>	5 Fingers Ambidextrous
<b>Surface</b>	Smooth
<b>Cuff style</b>	Beaded
<b>Length</b>	800mm/32in
<b>Cuff thickness</b>	0.51mm/20mil
<b>AQL</b>	1.5
<b>Packaging</b>	1 pair per black sealed plastic bag; 10 pairs per shipper carton

Re-order code	Port size (in/mm)	Thickness (mm/mil)	Glove Size
85600110	8/203	0.51/20	XL/11.0
85600095	8/203	0.51/20	L/9.5
85601110	10/250	0.51/20	XL/11.0
85601095	10/250	0.51/20	L/9.5
85602110	12/300	0.51/20	XL/11.0
85602095	12/300	0.51/20	L/9.5

### MATERIAL BENEFITS

- FDA approved polymer
- Withstands autoclaving up to 50 times
- Withstands temperatures up to 130°C
- Excellent chemical resistance
- High resistance to aging from exposure to UV and ozone
- Autoclave compatible for multiple cycles
- Performs well with sterilization processes (Gamma and Beta) and VHP

### KEY FEATURES

- Double-layer breach detection system
- Excellent ESD properties
- Available port sizes to fit most isolator glove boxes





Tb

## EPDM gloves (Ethylene-propylene- diene-rubber)

**EPDM** features all the same advanced qualities in comfort, protection, durability, heat and chemical resistance, and FDA compliance as EPDM+. The EPDM glove does not feature the white outer layer of an EPDM+ glove.

While gloves with higher protective qualities are traditionally less comfortable to wear, EPDM gloves deliver not only extreme protection and ruggedness, but also a high level of comfort, dexterity and tactile sensitivity to support workers' muscle activity and enable fine manual tasks. Available in both medium and heavy weights, the increased thickness of heavy-weight EPDM gloves (24mil/0.6mm) adds durability for heavy duty applications.

EPDM resists aging from exposure to oxygen, UV rays and ozone, lending to the material's longevity, and because it is halogen-free, EPDM is suitable for disposal by incineration. Because the glove material is fully conductive, it is exceptionally suited for semiconductor applications, and its dark coloring makes it an ideal solution in the production of dry powders.

## AlphaTec® EPDM

AlphaTec® RABS and Isolator gloves are designed from high quality Ethylene Propylene Diene Rubber, in compliance with FDA CFR21. RABS and Isolator Gloves manufactured from EPDM offer strong chemical resistance and physical properties. EPDM is resistant against hydrogen peroxide solutions and common disinfecting chemicals and withstands temperatures up to 130°C to ensure longevity even after dozens of sterilizations, making it durable, long lasting and reducing the need for glove replacements. EPDM gloves deliver not only extreme protection and ruggedness, but also a high level of comfort, dexterity and tactile sensitivity to enable fine manual tasks. Available in two thicknesses, the 24mil/0.6mm thick gloves adds durability for heavy duty applications. EPDM resists aging from exposure to oxygen, UV rays and ozone, lending to the material's longevity, and because it is halogen-free, EPDM is suitable for disposal by incineration. Because the glove material is fully conductive, it is exceptionally suited for semiconductor applications, and its dark colouring makes it an ideal solution in the production of dry powders.

<b>Material</b>	EPDM (Ethylene Propylene Diene Rubber)
<b>Colour</b>	Black
<b>Glove design</b>	5 Fingers Ambidextrous
<b>Surface</b>	Smooth
<b>Cuff style</b>	Beaded
<b>Length</b>	800mm/32in
<b>Cuff thickness</b>	0.4mm/16mil or 0.6mm/24mil
<b>AQL</b>	1.5
<b>Packaging</b>	1 pair per black sealed plastic bag; 10 pairs per shipper carton

Re-order code	Port size (in/mm)	Thickness (mm/mil)	Glove Size	Re-order code	Port size (in/mm)	Thickness (mm/mil)	Glove Size
85500110	8/203	0.4/16	XL/11.0	85503110	10/250	0.6/24	XL/11.0
85500095	8/203	0.4/16	L/9.5	85503095	10/250	0.6/24	L/9.5
85501110	8/203	0.6/24	XL/11.0	85504119	12/300	0.4/16	XL/11.0
85501095	8/203	0.6/24	L/9.5	85504095	12/300	0.4/16	L/9.5
85502110	10/250	0.4/16	XL/11.0	85505110	12/300	0.6/24	XL/11.0
85502095	10/250	0.4/16	L/9.5	85505095	12/300	0.6/24	L/9.5

### MATERIAL BENEFITS

- FDA approved polymer
- Excellent ESD properties
- Halogen-free
- Withstands temperatures up to 130°C
- Excellent chemical resistance
- High resistance to aging from exposure to UV and ozone
- Autoclave compatible for multiple cycles

### KEY FEATURES

- Increased thickness (0.76 mm) for added durability
- Available port sizes fit most isolator glove boxes



### PERFORMANCE RATINGS





# Ansell

Information provided by Ansell. For more information, contact your VWR Representative or visit [vwr.com/ansell](https://www.vwr.com/ansell)



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#### PRODUCT DISCLAIMER AND WARNING:

Products containing natural rubber latex may cause allergic reactions in some individuals. Products that provide "cut resistance" and "cut protection" or "puncture resistance" and "puncture protection" do not completely prevent or eliminate the potential for cuts or punctures, and are not intended or tested to provide protection against powered blades, serrated or other sharp or rotating equipment. Products that provide "resistance" to oil or grease or which are "oil repellent" do not completely prevent or eliminate the potential for oil or liquid penetration or absorption. Products that provide "snag resistance" or "snag protection" do not completely prevent or eliminate the potential for snags or friction-related injuries. Products that provide protection or resistance against heat or cold are not intended for use in extreme temperatures-use only as specified. <sup>1</sup> Not all gloves offer protection against all chemotherapy drugs. See product packaging or contact Ansell Customer Service for specific chemotherapy drug recommendations applicable to each Ansell product.

Products that provide "chemical resistance" or "chemical protection" do not completely prevent or eliminate the potential for injury due to chemical exposure, and where specific chemical permeation times are provided, they are based on laboratory environments that may differ from a user's worksite. Users should test chemical protective products against the particular environments and chemicals where the product is to be used.

Users are encouraged to always use caution and care when handling sharp or abrasive materials, chemicals, or other hazardous or dangerous substances. Any information or data provided is based upon Ansell's current knowledge and understanding of the subject matter, and is offered solely as a possible suggestion for use in making your own decisions or product choices. Product users should conduct all appropriate testing or other evaluations to determine the suitability of Ansell products for a particular purpose or use within a particular environment. Ansell may revise this information as new information, knowledge or experience becomes available. ANSELL DISCLAIMS ALL WARRANTIES OTHER THAN AS EXPRESSLY PROVIDED. According to current OSHA regulations, the employer has the final responsibility for selecting gloves and other personal protective equipment.



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