



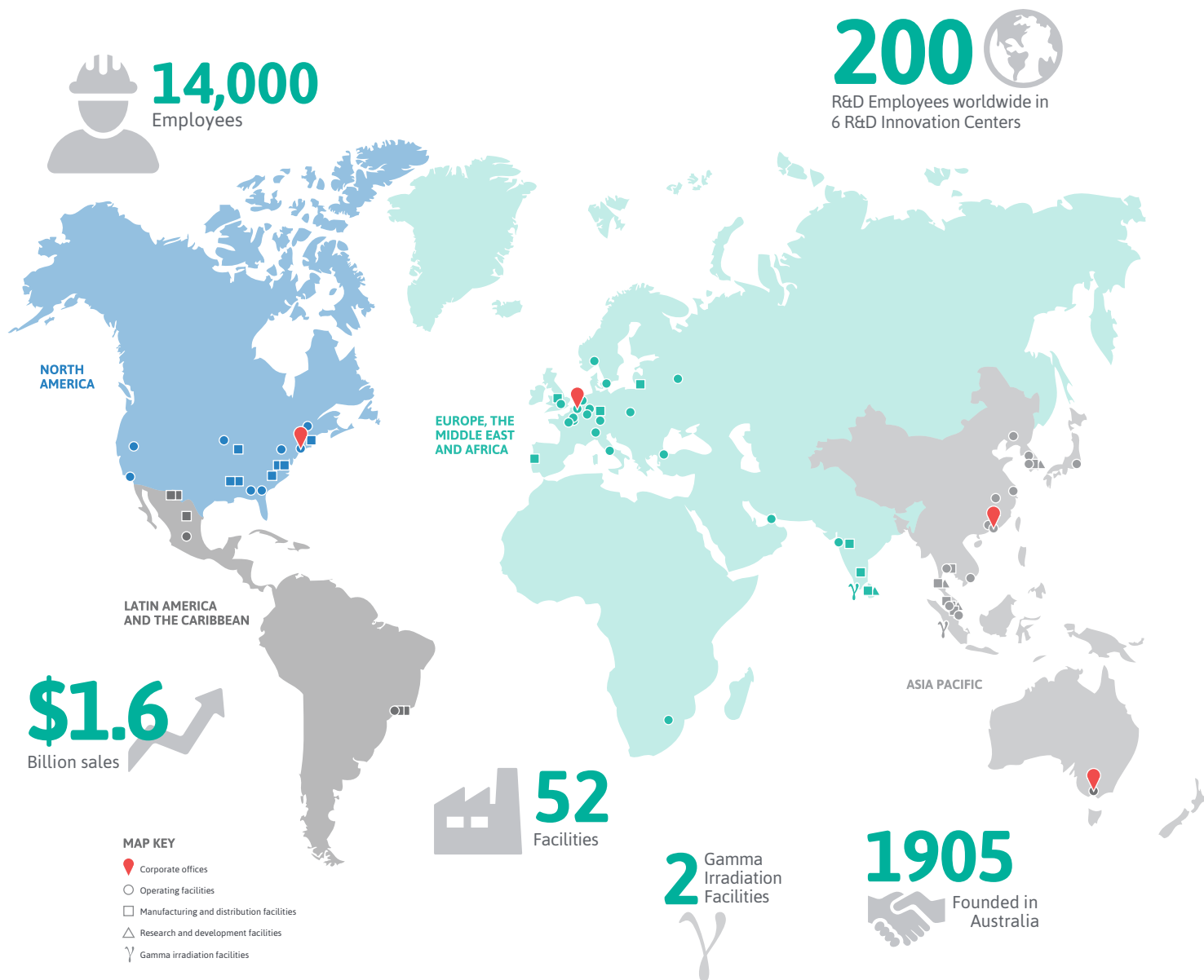
LIFE SCIENCES

INDUSTRY-SPECIFIC PROTECTION SOLUTIONS

QUICK REFERENCE GUIDE

Ansell

GLOBAL SALES AND SUPPLY CHAIN INFRASTRUCTURE



ANSELL LIFE SCIENCES

Ansell has been providing protection solutions for over 100 years and offers a comprehensive range of personal and product protection solutions to meet the needs of the life sciences industry. There are four main categories of companies we service, each with their own unique needs and challenges, which Ansell addresses with a full range of portfolio solutions:

1. Pharmaceutical industry
2. Biotechnology industry

3. Medical device industry
4. Research laboratories

FEATURED PRODUCTS

BioClean N-Plus BNPS

Elbow length nitrile gloves for extra protection

Benefits:

- 16"/400mm length to reduce risk of cross contamination
- Hand specific to reduce hand fatigue
- Recommended for use in Class 10 (ISO 4) environments
- Suitable for use in electrically sensitive applications

Sizes: 6.0-10.0

Performance Ratings

EN 374 EN 374



STERILE

Key Features

Approved for use with chemotherapy drugs (ASTM D 6978)*

Low AQL 0.65



Extra-long length for forearm protection

BioClean-D Drop-down Garment S-BDSH

True aseptic donning design

Benefits:

- Innovative up and over design reduces cross-contamination when donning
- Quick and easy donning procedure to decrease operator donning errors
- Antistatic properties making it ideal for use in electrically sensitive environments
- Low-linting CleanTough Class 10 (ISO 4) cleanroom compatible material
- Elasticated back, hood, cuffs & ankles to reduce the bellows effect

Sizes: S-XXXXL

EN 1149-5



STERILE

Key Features

Strategically placed quick-release tab system

Thumb loops to ensure a secure hold



Antistatic low-linting material

Sterility Assurance Level 10⁻⁶

BioClean Clearview Autoclavable Panoramic Goggles BCAP

Anti-fog lens for clear vision

Benefits:

- Anti-fog lens
- Super-soft frame
- Indirect ventilation system
- Toughened polycarbonate, anti-scratch lens
- Non-linting latex-free head band
- Tested to withstand 25 autoclave cycles of 30 minutes duration at 121°C/250°F*
- Can be worn over eye-glasses

Sizes: Universal



NON-STERILE

Key Features

Tested to withstand 25 autoclave cycles

Toughened, anti-scratch lens



Anti-fog

*Anti-fog lens shows no degradation after 25 cycles, and lens continues to be clear up to 40 cycles under laboratory conditions.

ANSELL LIFE SCIENCES INDUSTRY PROCESSES

1 WAREHOUSING



Applications:

- Loading and unloading of trucks and vehicles
- Unpacking of bulk goods
- Inventory recording

User needs:

- Dexterity and grip
- Abrasion protection
- Chemical protection

2 RAW MATERIAL PREPARATION



Applications:

- Sample collection
- Transporting raw materials
- Weighing and dispensing of solids and liquids
- Charging and discharging of solids and liquids

User needs:

- Dexterity and grip
- Chemical protection
- Exceptional barrier integrity



Microflex Supreno®
SE SU-690 (9.5") /
Supreno® EC SEC-375
(11.6")

Benefits & Features:

- Durable nitrile for longer wear times
- Non-stick surface resists tapes
- Extended cuff version approved for use with chemotherapy drugs*



TouchNTuff®
93-300 (clean) /
93-700 (sterile)

Benefits & Features:

- Clean, soft, comfortable nitrile for longer wear
- Enhanced chemical splash protection
- Robust glove protects against ripping



HyFlex®
11-840

Benefits & Features:

- Highly durable and breathable nitrile palm coating for longevity of use
- Soft and comfortable liner
- Silicone Free



Microflex®
XCEED® XC-310

Benefits & Features:

- Low AQL (0.65) for maximum barrier integrity
- Ansell ERGOFORM™ technology
- Thin, strong and durable nitrile



AlphaTec®
58-128

Benefits & Features:

- ANSELL GRIP™ technology for enhanced wet or oily grip
- Ansell ERGOFORM™ technology to improve comfort and productivity
- Nitrile chemical resistant performance



MicroChem® by
AlphaTec®
68-2000 Ts
PLUS

Benefits & Features:

- Lightweight, breathable anti-static microporous laminate
- Low linting reduces the risk of contamination in critical areas
- Proven barrier to low concentration chemicals, liquid and particulate biologicals



3 MANUFACTURING



PHARMACEUTICAL

BIOTECHNOLOGY

Applications:

- Loading and unloading of process equipment
- Transferring liquids and solids
- Loading wetcakes and unloading dry products
- Packaging and labeling

User needs:

- Chemical protection
- Dexterity and grip
- Abrasion and puncture resistance
- Sterile and/or clean

Applications:

- Transferring liquids
- Loading centrifuges and chromatography columns
- Sterilizing vials and ampules
- Aseptic filling and labeling

User needs:

- Wet grip
- Sterile and/or clean
- Dexterity
- Double donning



BioClean
N-Plus
BNPS

Benefits & Features:

- 400mm/16" length for extra protection
- Hand specific sterile nitrile
- Approved for use with chemotherapy drugs (ASTM D 6978)*



BioClean
Ultimate
BUPS

Benefits & Features:

- Hand specific sterile thin polychloroprene
- Ultra Clean - Class 10 (ISO 4) compatible
- Beaded cuff for stability on the arm
- 300m/12" length



Microchem® by
AlphaTec®
68-1500 Plus

Benefits & Features:

- Proven to filter 99.9% of particles > 3 microns
- Air and water vapor permeable "breathable"
- Lightweight, breathable anti-static SMS material



BioClean-D
Drop-down
Garment
S-BDSH

Benefits & Features:

- Innovative quick & easy donning design
- Lightweight for increased user comfort/wearability
- Sterile & Class 10 (ISO 4) compatible
- Low-linting antistatic CleanTough material



BioClean DB
BDBS

Benefits & Features:

- High particle, viral & bacterial filtration efficiency
- Ultrasonically sealed edges and low-linting to reduce risk of cross contamination
- Large breathing chamber for increased user comfort
- Sterile & Class 10 (ISO 4) compatible



BioClean
Clearview
Autoclavable
Goggles
BCAP

Benefits & Features:

- Indirect ventilation system to reduce risk of contamination into the controlled environment
- Toughened, anti-scratch, anti-fog lens for clear vision
- Tested to withstand 25 autoclave cycles^



3 MANUFACTURING



MEDICAL DEVICE

4 LABORATORY



R&D AND QUALITY CONTROL LABS

Applications:

- Assembly of parts
- Sterilization of parts
- Packaging & labeling
- Cleanroom cleaning and preparation

User needs:

- Non-contaminating materials
- Dexterity
- Reduced hand fatigue
- Confident protection

Applications:

- Analytical testing
- Blending, compounding solids and/or liquids
- Sample taking and processing
- Quality sampling

User needs:

- Wet and dry grip
- Dexterity
- Chemical protection
- Thermal



Nitrilite®
93-401

Benefits & Features:

- Ultra Clean LPC <400 counts/cm²
- Chemical splash protection
- Robust nitrile protects against punctures



Microflex®
93-850

Benefits & Features:

- 2X more chemical splash protection**
- Enhanced durability
- Ultimate barrier (0.40 AQL)



BioClean BFAP
(non-sterile) /
S-BFAP (sterile)

Benefits & Features:

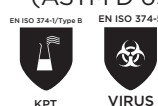
- Thin polychloroprene for increased dexterity
- Double-donnable
- Low LPC <850 counts/cm²
- Class 10 (ISO 4) compatible



Microflex® NeoPro®
NPG-888 (9.5") /
NeoPro® EC
NEC-288 (11.4")

Benefits & Features:

- Classic neoprene for wet & dry grip
- Excellent splash resistance to acids, bases & alcohols
- Approved for use with chemotherapy drugs (ASTM D 6978)*



NOTE: EN symbols apply to NEC-288 ONLY



BioClean-D
Coverall with
Hood BDCHT
(non-sterile) /
S-BDCHT
(sterile)

Benefits & Features:

- Class 10 (ISO 4) compatible low-linting antistatic CleanTough material
- PPE Cat 3 Type 5 & 6 Protection
- Lightweight for increased comfort



Therm-A-Knit®
78-101 (Blue) /
78-150 (White)

Benefits & Features:

- Thermal insulation for cold protection
- Contact heat rated
- Ambidextrous



4

LABORATORY



MAINTENANCE AND CLEANUP

5

EMERGENCY RESPONSE



Applications:

- Washing glassware
- Removing of broken glass
- Chemical spill or leakage cleanup
- Maintenance of lab equipment

User needs:

- Wet and dry grip
- Chemical protection
- Cut protection
- Heat protection

Applications:

- Unexpected chemical leaks & spills
- Accidental release of toxic gases
- Biohazard response

User needs:

- Chemical protection
- Flame and fire resistance
- Liquid resistance
- Protection from airborne contamination



AlphaTec®
58-735

Benefits & Features:

- Nitrile barrier shell provides advanced chemical protection
- Cut liner and Nitrile shell provides dexterity, tactility and protection



Barrier®
02-100

Benefits & Features:

- Multi-layer highly chemical resistant LCP-PE film
- Nonwoven inner liner for perspiration absorption
- Hand specific for enhanced comfort, can be used as a glove liner



HyFlex® 11-318

Benefits & Features:

- Uncoated cut resistant glove
- Can be worn as a glove liner for cut protection & perspiration absorption
- Touch Screen capable



ChemTek
38-612

Benefits & Features:

- Added protection against aggressive chemicals
- Ergonomic design and excellent dexterity
- Viton/ Butyl chemical resistant performance



Microflex®
93-260

Benefits & Features:

- 3 layer design for protection against harsh acids, bases and solvents
- Nitrile & Neoprene for broad resistance
- 12" extended cuff



Microchem® by
AlphaTec® 6000

Benefits & Features:

- High performance gastight suit
- Protection against chemicals and biological agents
- Highly visible orange color



TECHNICAL SERVICES

VALIDATION PACKS

Ansell understands that there is more intense focus today on quality control and regulatory oversight than ever before.

This is why Ansell has created validation packs, to make compliance and qualification processes easier and faster. Validation packs consist of a multitude of technical, regulatory and scientific documents.

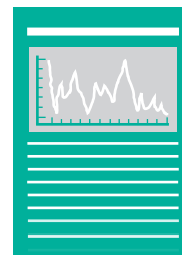
TECHNICAL AND PRODUCT DATA SHEETS



CERTIFICATIONS



TEST REPORTS



Ansell**GUARDIAN**[®]
Global Safety Services

ANSELL GUARDIAN[®]

Ansell Guardian[®] simplifies the selection process. Our unique suite of proprietary tools helps companies maximise safety, while improving productivity and performance across 7 key functional areas of your business.

CHEMICAL GUARDIAN

Ansell Chemical Guardian evaluates the resistance and permeation times of different materials or polymers to provide hand, body and foot protection recommendations that protect workers from specific chemicals, while meeting their needs for benefits such as tactility, grip or low allergy risk protection.

MATERIAL SAFETY DATA SHEET (MSDS)

CAS	CHEMICAL NAME	%
100-21-0	TEREPHTHALIC ACID	100
108-31-6	MALEIC ANHYDRIDE	100
100-82-7	CYCLOHEXANE	100

ASSESSMENT

→ **ANSELL
CHEMICAL
GUARDIAN** →



SCIENTIFIC SUPPORT

Our global network of research labs can help answer your technical questions, troubleshoot and provide other types of support or specialised testing.

In addition, Ansell regularly publishes technical releases and white papers on important industry topics.

**WORKING WITH
CHEMOTHERAPY
DRUGS**

**THE IMPORTANCE
OF ERGONOMICS**

**ALLERGY
PREVENTION**

DOUBLE DONNING

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* See product packaging or contact Ansell Customer Service for specific chemotherapy drug permeation times and recommendations. Recommendations made in this note are based on extrapolations from laboratory test results and information regarding the composition of chemicals and may not adequately represent specific conditions of end use. Synergistic effects of mixing chemicals have not been accounted for. For these reasons, and because Ansell has no detailed knowledge of or control over the conditions of end use, any recommendation must be advisory only and Ansell fully disclaims any liability including warranties related to any statement contained herein.

** Based on EN 374 and ASTM F739 chemical permeation test data, when compared to performance of disposable nitrile gloves of a similar weight

WARNING: No glove provides complete protection against cuts, abrasions or chemicals. Users should test the suitability of Ansell products for a particular purpose, for use within a particular environment or against particular chemicals. See <http://www.ansell.com/en/Legal/Disclaimer.aspx> for additional information.

WARNING: Natural Rubber Latex may cause allergic reactions in sensitive individuals.