



Ansell

**MORTUARY
INDUSTRY**
PROTECTING WORKERS IN
A RISK-FILLED SECTION

www.ansell.com

ABOUT ANSELL

When people feel safe, there's no limit to what they can achieve. This belief drives the critical work we do at Ansell to mitigate workplace risk.

We do this by going beyond designing high quality personal protective equipment that improves worker performance. We're also pioneering new technologies that predict and prevent injuries.

By helping organizations stay two steps ahead of challenges — from workplace safety to work practice sustainability — **Ansell is leading the world to a safer future.**

When you choose Ansell, you gain access to our resilient global network, deep knowledge, and unrivalled portfolio. We are also committed to nurturing effective partnerships and creating a more sustainable future.

Our sources of differentiation



Unrivalled Portfolio

Our extensive hand and body protection portfolio is unmatched in its innovation, quality, and performance.

Deep Knowledge

Our expertise and understanding of our customers' evolving operations enable us to offer safety solutions and services for every need.

Resilient Global Network

We meet evolving customer safety needs and integrate local operations teams with a resilient global manufacturing and warehousing network. With 15 manufacturing facilities, 24 distribution centres and a network of outsourced suppliers around the world, working with Ansell minimizes the risk of supply chain disruptions. You'll also be supported by 15,000 Ansell staff members spread across North America, Latin America/Caribbean, EMEA and Asia Pacific, who will attend to your inquiries and ensure your safety and supply needs are met.

Sustainable Future

We are passionate about developing future-proof safety solutions through sustainable practices.

Effective Partnerships


We nurture our customer relationships, committed to their continued market success, safety outcomes and compliance.

Scan to contact us:




SUSTAINABILITY GOALS & INITIATIVES


At Ansell, we’ve set ourselves ambitious goals to transform our company in order that we can better protect people and the environment we live in.



100% renewable electricity across our entire operations by 2040




Implementing an **Energy Management System (EMS)** across all manufacturing plants by 2028




Reducing emissions 42% by 2030 while we work towards net zero by 2040 (FY20 baseline)*


*Less than 10% use of offsets.



Reduce absolute water withdrawals by 35% by mid 2027, from a mid 2020 baseline




100% of packaging material is recyclable, reusable or compostable by 2026



Our Sustainability Achievements Across our Factories


Energy

- Renewable energy use across 9 sites
- 50% renewables in our energy mix (thermal and electricity)
- 7,430 MWh of energy generated



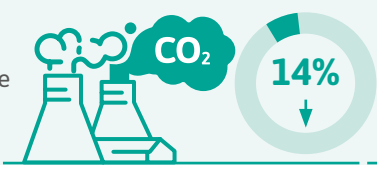
Waste

- Zero Waste to Landfill Certification across 12 sites
- >99% waste diverted from landfills
- 21,284 MT of waste diverted in FY23




Carbon Emissions

- 14% decrease in Scope 1 and 2 greenhouse gas emissions



Packaging

- 97% of industrial packaging and 100% of healthcare segment packaging, including both outer cases and inner dispenser packaging, are recyclable.





Ansell Earth is a framework built on five product life cycle pillars: material, manufacturing, packaging, use, and end of use, all of which help Ansell customers make informed portfolio decisions and achieve their sustainability goals.



Material



Manufacturing



Packaging



Use



End of Use

Packaging Waste: SMART Pack 2.0

Ansell has improved its packaging over the last couple of years to result in a **34%** reduction of CO₂e per pack.



- Smaller pouches, smaller glove boxes, smaller cartons. This all scales down to **less plastic and cardboard waste**, as well as a **reduced carbon footprint** thanks to lower CO₂ emissions.
- Ansell's more compact dispenser boxes are between **23% to 42% smaller** in area compared to key competitor packaging in the market.³
- Cartons and dispenser boxes are made from **70% and 90% recycled materials** respectively.
- All parts of surgical packaging now recyclable.*



* Always check your local recyclable status of HDPE and LDPE as these plastic materials may not be considered suitable for recycling in your country.

Front: **HDPE plastic (white)**
Back: **LDPE plastic (transparent)**



Surgical poly-pouches are made using a combination of high density polyethylene (HDPE) and low density polyethylene (LDPE) thermoplastic. HDPE and LDPE are known for their **high recyclability, durability, as well as their weather and chemical resistance.**

Taking Our Information Online

- Reducing printed materials by giving customers a one stop access point to all product information online.
- Customers can now scan a QR code to provide feedback or contact Ansell 24/7.
- Ensuring customers have **direct access to Ansell 24/7.**



Collaborations

CLIMATE GROUP

Ansell aligns with **Climate Group's** leading global initiatives for a low-carbon future, RE100 and EP100, making good on our climate commitments announced early this fiscal year.



We have formally submitted our letter of commitment to the Science Based Targets initiative (SBTi), which confirms our intention to set near-term and long-term science-based greenhouse gas (GHG) emission reduction targets.



Ansell joined the **Renewable Thermal Collaborative**, one of the largest coalitions addressing the demand for decarbonization of thermal energy generation.



The **Responsible Glove Alliance (RGA)** was launched, with seven founding members, including Ansell. The RGA is supported by the **Responsible Business Alliance (RBA)**, the world's largest industry coalition dedicated to corporate social responsibility in global supply chains.

People

Ansell condemns all forms of modern slavery and human rights abuses, including the use of forced labor. We consistently communicate to suppliers our expectations for having effective systems in place for ensuring the highest standards of health and safety of all workers and remediating human rights abuses identified in their supply chains. To date, we have seen improved labor standards amongst our suppliers.

Ansell recognizes that modern slavery is a profoundly complex issue that requires collaboration and time to rectify and effect lasting industry-wide changes. Therefore, we remain committed to working with the entire international community, industry partners, governments, and non-government organizations to promote a coordinated approach to addressing the root causes of human rights abuses in our industry.

Awards & Certifications

AWARDED ECOVADIS 2024 GOLD MEDAL

Ansell was awarded a Gold medal by EcoVadis, placing us within the top 5% of over 1000 companies assessed.



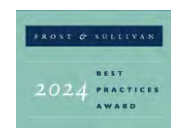
WSH Asia Award 2022: Best Product/Service

SMART Pack received an excellence recognition within the safety industry based on new and innovative solutions that improve workplace health and safety.



Ansell is Frost & Sullivan's Company of the Year

Ansell was awarded the Frost & Sullivan's 2024 Global Company of the Year Award in the hospital supplies industry, demonstrating excellence in growth, innovation, and leadership.



Ansell has won the Sustainability, Environmental Achievement & Leadership (SEAL) Initiative Award

SMART Pack was recognized for its sustainable design, which features recyclable⁴ packaging elements that help to reduce hospital waste otherwise generated by non-recyclable, single-use packaging commonly available in the market.



MORTUARY INDUSTRY

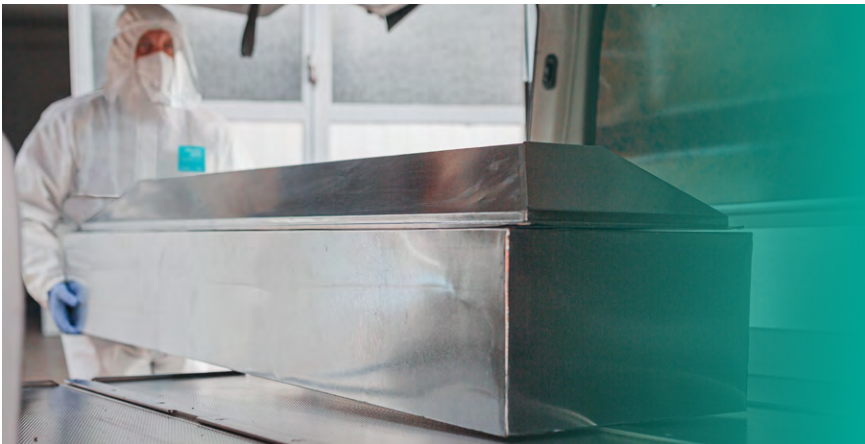
The mortuary industry typically refers to the businesses and facilities that are involved in the preparation, handling, and transportation of deceased individuals. This includes mortuaries, funeral homes, and crematories.



Medical Examiners / Coroners

ROLES:

- Investigating deaths
- Autopsies, conducting forensics examinations, and reviewing medical records and circumstances surrounding the death



Mortuaries / Crematories

ROLES:

- Prepare deceased's remains for funerals
- Body transportation
- Arrange cremation and interment arrangements



Funeral Home

ROLES:

- Initial consultation
- Body transportation
- Obituary and death certificates
- Funeral planning
- Transportation services
- Post-funeral services
- Pre-arrangement services

Mortuary industry is faced with unique biological, chemical, and physical hazards to their health in the daily course of doing their jobs. These hazards include exposure to embalming fluids and chemicals such as formaldehyde, as well as airborne and bloodborne pathogens and COVID-19. To provide peace of mind during these challenging periods, Ansell PPE protects Medical Examiners, Funeral Home, and Mortuary workers from the wide range of hazards they face.

Industry Chemicals

The embalming fluid used to preserve bodies typically contains a mixture of different chemicals, the major ones being formaldehyde, glutaraldehyde, methanol, phenol, acetone, and lutensit A-BO. Exposure to embalming products such as glutaraldehyde and formaldehyde can pose serious health risks to workers and can worsen existing health problems.

Formaldehyde is the harshest substance that these professionals handle; it has been identified as a carcinogen. It is highly toxic if inhaled, touched or ingested. The formaldehyde content in embalming fluid generally ranges from 5% to 37%.



Exposure risks to **COMMONLY-USED INDUSTRY CHEMICALS**

Short and long term effects

Short-term effects from exposure to formaldehyde occur when it is present in the air at levels exceeding 0.1 parts per million (ppm). Embalmers are usually exposed to formaldehyde at concentrations averaging up to 9 ppm during embalming, making them particularly vulnerable to short-term effects.¹ Those include eye, nose, throat and skin irritation such as erythema, edema, vesiculation, hives, or allergic contact dermatitis.² Exposure to liquid formalin or formaldehyde vapor can provoke skin reactions in sensitized individuals even when airborne concentrations of formaldehyde are well below 1 ppm.³

In some cases, long-term inhalation exposure can even lead to nose and throat cancers as well as leukemia.

Wearing adequate PPE is essential. If the wrong PPE is used, or if it is not fitted correctly, it is unlikely to provide adequate protection. Ansell has a well-rounded portfolio that provides robust protection to mortuary workers. From gloves to body protection, Ansell ensures that they are equipped to handle chemicals and biological matter, reducing the risk of harmful exposure.

Mortuary workers are almost
4.5x more likely
to contract
ALS (Lou Gehrig's Disease)
than people with no formaldehyde
exposure at their jobs.⁴

Following OSHA protocols, good ventilation, proper PPE, and regular health monitoring are essential to maintaining worker health. In recognition of the hazards outlined above, mortuary and funeral home employers must abide by OSHA standard 1910.1048 to avoid the long and short-term health effects of harmful chemicals.⁵ The standard also outlines specific medical actions to be taken in event of direct exposure to bloodborne



Gloves shall be worn when it can be reasonably anticipated that the employee may have hand contact with blood, other potentially infectious materials, mucous membranes, and non-intact skin; when performing vascular access procedures and when handling or touching contaminated items or surfaces.⁵



- OSHA standard 1910.1030(d)(3)(ix)

AnsellGUARDIAN® Chemical for the Mortuary Industry

AnsellGUARDIAN® Chemical is a service that evaluates the resistance of glove materials against chemicals to offer a risk assessment with expected permeation breakthrough times. The AnsellGUARDIAN® Chemical database contains over 7,000 single chemicals and 17,500 mixed chemicals. This assessment can either be carried out during a personal consultation with one of our AnsellGUARDIAN® specialists or online by using our chemical permeation database. As a result, selecting the right chemical glove and suit has never been easier.

Material				LLDPE	Nitrile	Nitrile	Neoprene	Nitrile	Nitrile	Nitrile/Neoprene
Thickness (mm)				0.062	N/A	0.46	0.16	0.14	0.14	0.20
Style				AlphaTec® 02-100	AlphaTec® 58-735	AlphaTec® Solvex® 37-175	MICROFLEX® NeoPro™ EC NEC-288	MICROFLEX® SUPRENO™ EC SEC-375	MICROFLEX® LIFESTAR EC™ LSE-104	MICROFLEX® 93-260
CAS	Chemical Name	%	PS							
50-00-0	Formaldehyde	37	I	>480' C	>480'	240-480'	240-480'	>480'	>480' C	>480' C
111-30-8	Glutaraldehyde	50	I	>480'	>480'	>480'	>480'	>480'	>480'	>480'
67-56-1	Methanol	50	I	>480'	>480'	>480'	10-30'	30-60'	60-120'	60-120'
108-95-2	Phenol	90	I	>480'	30-60'	60-120'	10-30'	<10'	<10'	10-30'
67-64-1	Acetone	50	I	>480'	10-30'	10-30'	<10'	<10'	<10'	<10'
	Lutensit A-BO		I	>480'	60-120'	60-120'	10-30'	30-60'	30-60'	30-60'

Permeation Breakthrough Times (min)











PS - Physical State, A - Aerosol, G - Gas, L - Liquid, P - Paste, S - Solid

The permeation breakthrough times present in this chart were evaluated according to the ASTM F739 standard. Colored cells with numbers and symbol (C) correspond to experimentally determined data generated by an accredited laboratory. The rest of cells correspond to estimations.

■ Not Recommended
 ■ Splash Protection
 ■ Medium Protection
 ■ Good Protection

Permeation breakthrough time is the time (in minutes) for the chemical in question to permeate through the material at a rate of 1.0 µg /cm²/min (as per EN ISO 374) or 0.1 µg /cm²/min (as per ASTM F739).

Protection Solutions

HIGH RISK GLOVES FOR AUTOPSY AND EMBALMING				
AlphaTec® 02-100	MICROFLEX® SAFEGRIP™ SG-375	MICROFLEX® SUPRENO™ EC SEC-375	MICROFLEX® LIFESTAR EC™ LSE-104	MICROFLEX® NeoPro™ EC NEC-288
Highly chemical-resistant gloves, ideal for use in spill response kits	Thick latex gloves designed to enhance safety by offering extra durability	Durable nitrile gloves with extended cuff	Dual-layer gloves that offer barrier protection against opioids and chemical hazards	Exceptional grip in wet and dry environments
				
				







HIGH RISK GLOVES FOR CLEAN UP

AlphaTec® 58-735	AlphaTec® Solvex® 37-175	MICROFLEX® 93-260
Cut-protective chemical-resistant gloves with high-visibility liner for advanced protection	Durable, comfortable chemical gloves that offer versatile hand protection	Three layer design chemical-resistant disposable gloves that offer tough chemical protection and unparalleled comfort
		
		

COSMETICIZING, DRESSING, AND TRANSPORT

MICROFLEX® MidKnight™ MK-296	MICROFLEX® UltraSense™ EC USE-880	MICROFLEX® UltraSense™ US-220	SANDEL® Z-Slider™ Patient Transfer Sheet
Black nitrile gloves that mask stains	Extended hand protection for light to mid duty work	Designed to provide reliable protection and tactility	Helps reduce back injuries that often result from lifting, transferring and repositioning patients
			
			

OTHER PROTECTION SOLUTIONS

MICRO-TOUCH® CENTRAL SUPPLY – SPD PLUS ULNCS	AlphaTec® 2000 STANDARD Bound - Model 111	AlphaTec® 56-802
Disposable medical exam gloves with 33% longer, up-to-the-elbow protection for high-risk situations	Superior, breathable microporous laminate protective suit that is ideal for industrial applications	Endurosaf™ high performance aprons
		
		

See below table for detailed product recommendations.

Roles, Risks and Recommendations

Title	Tasks	Product recommendations
Forensic Technician	<ul style="list-style-type: none"> Manual handling involving grip 	MICROFLEX® NeoPro™ EC NEC-288 MICROFLEX® LIFESTAR EC™ LSE-104 MICROFLEX® SUPRENO™ EC SEC-375 MICRO-TOUCH® CENTRAL SUPPLY – SPD PLUS ULNCS SANDEL® Z-SLIDER™ PATIENT TRANSFER SHEET SANDEL® STAT-BLOC™ TABLE SHEETS
Medical Examiner's Office	<ul style="list-style-type: none"> Bloodborne diseases (i.e. HIV, Hepatitis B, and Hepatitis C) Airborne diseases (i.e. tuberculosis) 	MICROFLEX® NeoPro™ EC NEC-288 MICROFLEX® LIFESTAR EC™ LSE-104 MICROFLEX® SUPRENO™ EC SEC-375 MICRO-TOUCH® CENTRAL SUPPLY – SPD PLUS ULNCS SANDEL® Z-SLIDER™ PATIENT TRANSFER SHEET SANDEL® STAT-BLOC™ TABLE SHEETS
Pathologist	<ul style="list-style-type: none"> Airborne and bloodborne pathogens Cutting, slicing, incising, sawing Organ manipulation Undertaking special tests with equipment Musculoskeletal diseases (MSDs) 	MICROFLEX® 93-260 MICROFLEX® NeoPro™ EC NEC-288 MICROFLEX® LIFESTAR EC™ LSE-104 MICROFLEX® SUPRENO™ EC SEC-375 MICRO-TOUCH® CENTRAL SUPPLY – SPD PLUS ULNCS AlphaTec® 2000 STANDARD Bound - Model 111 AlphaTec® Solvex® 37-175 AlphaTec® 56-802 SANDEL® Z-SLIDER™ PATIENT TRANSFER SHEET SANDEL® STAT-BLOC™ TABLE SHEETS
Pathologist/Lab Tech	<ul style="list-style-type: none"> Airborne and bloodborne pathogens Cut, lacerations and puncture Wet grip 	MICROFLEX® 93-260 MICROFLEX® NeoPro™ EC NEC-288 MICROFLEX® LIFESTAR EC™ LSE-104 MICROFLEX® SUPRENO™ EC SEC-375 MICRO-TOUCH® CENTRAL SUPPLY – SPD PLUS ULNCS AlphaTec® 02-100 AlphaTec® Solvex® 37-175 AlphaTec® 56-802 AlphaTec® 2000 STANDARD Bound - Model 111 AlphaTec® 58-735 SANDEL® Z-SLIDER™ PATIENT TRANSFER SHEET SANDEL® STAT-BLOC™ TABLE SHEETS
Funeral Home Employees	<ul style="list-style-type: none"> Airborne and bloodborne pathogens Manual handling Puncture 	MICROFLEX® 93-260 MICROFLEX® NeoPro™ EC NEC-288 MICROFLEX® LIFESTAR EC™ LSE-104 MICROFLEX® SUPRENO™ EC SEC-375 AlphaTec® 02-100 AlphaTec® 56-802 AlphaTec® 58-735 SANDEL® Z-SLIDER™ PATIENT TRANSFER SHEET SANDEL® STAT-BLOC™ TABLE SHEETS
Mortician	<ul style="list-style-type: none"> Chemical exposure to formaldehyde and other commonly-used chemicals Airborne and bloodborne pathogens Musculoskeletal diseases (MSDs) 	MICROFLEX® 93-260 AlphaTec® 02-100 AlphaTec® Solvex® 37-175 AlphaTec® 56-802 AlphaTec® 58-735 AlphaTec® 2000 STANDARD Bound - Model 111 SANDEL® Z-SLIDER™ PATIENT TRANSFER SHEET SANDEL® STAT-BLOC™ TABLE SHEETS

REFERENCES

- <https://www.cdc.gov/niosh/docs/hazardcontrol/hc26.html#:~:text=Short%2Dterm%20exposures%20to%20this,the%20lungs%2C%20followed%20by%20death>
- <https://www.cancer.gov/about-cancer/causes-prevention/risk/substances/formaldehyde/formaldehyde-fact-sheet#:~:text=through%20the%20skin,What%20are%20the%20short%2Dterm%20health%20effects%20of%20formaldehyde%20exposure,%3B%20nausea%3B%20and%20skin%20irritation>
- OSHA
- BMJ Journals <https://jnnp.bmj.com/content/87/7/786>
- <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1048AppC>



**Contact your Ansell representative for ordering
or more information.**

www.ansell.com

ABOUT ANSELL

Ansell is a global leader in safety solutions and an integrated manufacturer of personal protection equipment for healthcare and industrial workplaces. Each day, over 10 million workers in more than 100 countries trust their safety to us. By helping workers and organizations everywhere stay two steps ahead of challenges — from workplace safety to sustainable work practices — **ANSELL IS LEADING THE WORLD TO A SAFER FUTURE.**

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