



Ansell

AUTOMOTIVE

Hazards & Solutions

ansell.com

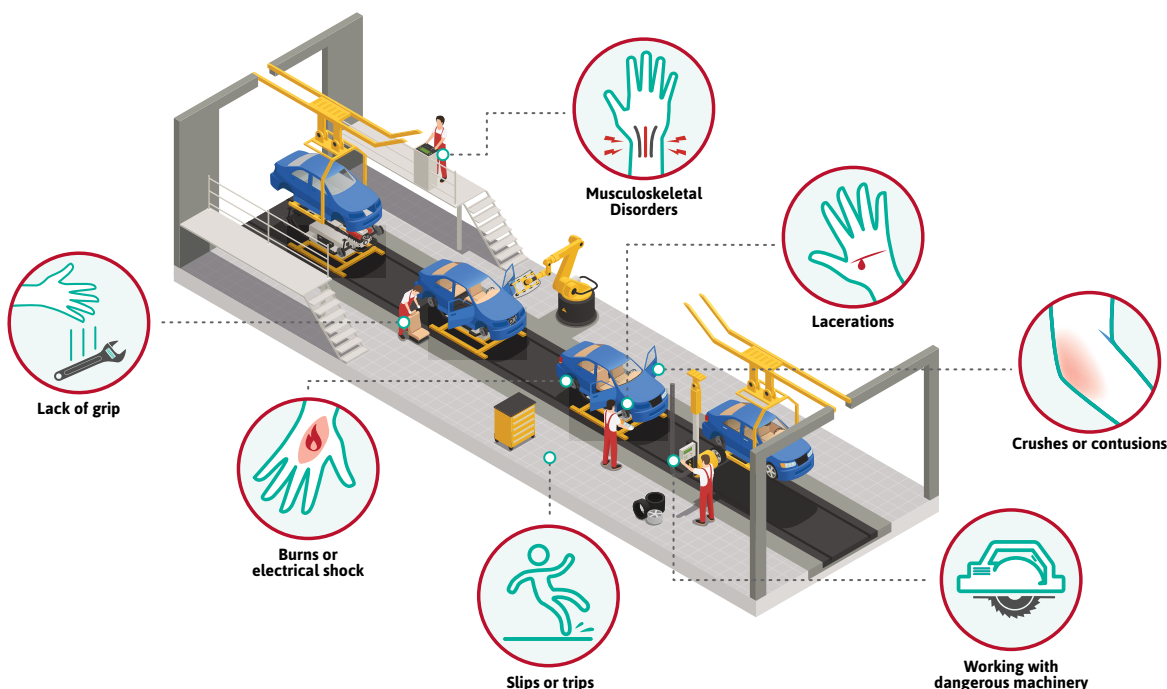
AUTOMOTIVE



Ranging from parts production plants to assembly plants, automotive manufacturing consists of making the parts and bodies of cars, motorcycles, trucks and other motor vehicles used across the world. Automotive workers are often exposed to dangerous machinery, chemicals, equipment and an arduous work environment. They regularly use their hands and spend much of their time bending, lifting, and performing repetitive tasks. As a result, these workers are exposed to a multitude of hazards every day.

Did you know: The U.S. Bureau of Labor Statistics have determined workers in automobile and motor vehicle manufacturing environments experience higher rates of injury and illness than workers in most other industries.¹ At Ansell, we are committed to protecting automotive workers. We go beyond regulatory compliance to ensure our product portfolio fully protects against the specific hazards these workers face.

PRIMARY HAZARDS IN AUTOMOTIVE²



At Ansell we strive to find a solution for any hazards that workers face throughout the day, creating a more productive and safe day at work. Our products are engineered to deliver the optimum balance of comfort, performance and protection. We provide customers in the automotive industry with tailored solutions to improve worker safety and productivity.

1. <https://www.parsonslawgroup.com/workers-compensation-claim-and-the-automotive-industry.html>

2. <https://pubmed.ncbi.nlm.nih.gov/9750941/>

AUTOMOTIVE HAZARDS & SOLUTIONS

Workers in Automotive environments are exposed to an abundance of hazardous elements from harmful chemicals to handling sharp or abrasive materials. If the proper personal protective equipment (PPE) is not worn, injuries may occur which can lead to an exponential growth of lost or restricted work days. To ensure maximum level of safety, it is important to understand some of the common hazards workers face in this industry.

CUT PROTECTION

Automotive workers are at a high risk for experiencing cuts or lacerations while performing their daily activities. They are exposed to glass, dangerous machinery, and other sharp objects and edges where cut and puncture injuries are likely to occur. According to U.S. Bureau of Labor Statistics, roughly 30% of all workplace injuries every year are from cuts and lacerations, with 12% of those occurring on the hand.³ Selecting the right PPE with the appropriate cut level protection is extremely important.

Ansell's cut resistant gloves are made with innovative technologies to provide outstanding cut protection with enhanced dexterity, grip and comfort. INTERCEPT™ Technology is a proprietary cut resistant yarn that provides a lighter weight and more comfortable alternative to other branded yarns.



HyFlex® 11-644

Enhanced cut protection to provide confidence while working with sharp objects. Allows for longer wear due to low palm weight and excellent abrasion resistance.



HyFlex® 11-541

With a form-fitting, ultra-lightweight feel, this glove is ideal for applications where workers have traditionally guarded against cut risks with heavier styles that limit their dexterity and breathability.



HyFlex® 11-280/281

HyFlex® 11-280

Excellent cut protection with a soft and cool feel and a seamless design, making it the best choice for all-day comfort. Engineered to perform in combination with any HyFlex® cut-resistant glove.



HyFlex® 11-281



HyFlex® 11-542

Provides high levels of protection against cuts and lacerations. Also provides high abrasion resistance and protection from intermittent heat contact.



HyFlex® 11-518

Ultra-light with barehand-like tactility and dexterity. Soft and strong liner with Dyneema® Diamond Technology fiber. Resilient PU coating for high abrasion resistance.



HyFlex® 11-561*

The thinnest, lightest ISO cut C/ ANSI A3 with more than 2X the durability of the next closest competitor.



HyFlex® 11-727

Excellent abrasion resistance and high-level cut protection with a flexible fit. Light, seamless liner keeps hands cool and dry.



HyFlex® 11-738

Ultra-strong fibers provide extreme resistance against cuts and burrs. Reinforced thumb crotch increases protection and extended use life. Made with water-based polyurethane for enhanced comfort and dexterity.



AlphaTec® 58-735

Provides protection against lacerations. Optimized fit that integrates the high-visibility cut liner into the nitrile shell, acting as an indicator when glove is cut and highlighting when chemical protection is compromised. Excellent dry and wet grip.

* Based on internal lab testing

3. <https://www.ishn.com/articles/107351-keep-facts-handy-5-simple-statistics-to-motivate-hand-protection>

Note: Product availability may vary. These styles serve as examples only. For tailored recommendations for your unique needs and applications, please request an AnsellGUARDIAN® assessment.

OIL PROTECTION

When working in a plant, automotive workers are regularly exposed to oil-related tasks and require strong grip. Workers need surface barrier protection to prevent oils and other lubricants from making contact with the skin as well as enhanced grip to mitigate muscle fatigue. Ansell offers ANSELL GRIP™ Technology, a coating treatment that minimizes the force required to grip dry, oily and wet tools or materials, reducing hand and arm fatigue while improving dexterity, safety and productivity.



HyFlex® 11-925

Ultimate performance and comfort for oily environments.



HyFlex® 11-931/937/939

The lightest gloves combining cut resistance, oil repellence and increased durability*



AlphaTec® 58-430

Solvent-resistant glove ideal for intermittent exposure to lubricants and cleaning agents. Features ANSELL GRIP™ Technology that offers the dexterity of a medium duty, unlined style with wet/oily grip performance.



AlphaTec® 58-535B

Reliable liquid-proof protection featuring ANSELL GRIP™ Technology, which minimizes the force required to grip and relieves hand and arm strain caused by poor grip.



MICROFLEX® 93-852

Black nitrile disposable glove offers tough protection. Fully textured for a confident grip.



MICROFLEX® 63-864

Durable latex disposable glove with enhanced finger thickness for extra protection. Textured fingertips for a confident grip.



TouchNTuff® 92-600

The world's leading disposable glove for chemical splash protection.



MICROFLEX® 93-843

Advanced barrier protection against contaminants with a durable nitrile formulation. A sturdy glove ideal for long wear times.



EDGE® 48-929

Excellent for medium weight applications requiring strong oil-repellence. Reliable combination of cut, grip and oil resistance.



EDGE® 48-919

Made of a seamless liner, fully dipped into NBR coating to provide protection against fluid exposure. Excellent for handling small and medium-sized components coated with oil or lubricant.

ELECTRICAL & HEAT PROTECTION

Vehicles have become more complex over the years and now involve more parts and electrical components than required in the past. The electric vehicle (EV) market has grown rapidly since 2017 with EVs becoming a more viable option for new car buyers. This has led to an increased need for protection from electric shock, arc flash and other heat-related injuries.



ActivArm® RIG0011 (Class 00)

Designed for ultimate comfort, performance and safety. Meets all applicable ASTM, NFPA, OSHA, CSA and EN standards and is ergonomically designed for less hand fatigue.



ActivArm® 43-216

Durable and comfortable protection from heat and molten splash. Cotton lining provides thermal insulation and extended comfort.



ActivArm® 43-217

Optimum protection from heat, flames, sparks and weld splatter with extended protection to the forearm.



ActivArm® 96-002

Low Voltage Leather Premium Goat Skin Leather Protector.



ActivArm® 80-813

Superior arc-flash and flame-resistant protection from extreme hazards. Proprietary coating ensures secure grip in wet, oily and dry environments.

* vs unreinforced glove equivalent

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ABRASION PROTECTION

When working in automotive manufacturing, grip and abrasion resistance are essential to hand safety. A compromised grip increases hand fatigue as the muscle becomes overexerted. If a glove isn't providing the necessary grip, workers may remove their gloves and expose their hands to significant hazards. According to OSHA, 70% of hand injuries in the United States occur when people are not wearing gloves.⁴ That is why Ansell features ANSELL GRIP™ Technology; which is a coating treatment that minimizes the force required to grip dry, oily and wet tools or materials, relieving hand and arm strength caused by poor grip. FORTIX™ Technology applies a thin, resilient and breathable nitrile foam coating to knitted gloves - dramatically extending their working life and improving their comfort.



HyFlex® 11-618

Light duty/multipurpose glove for general maintenance purposes and low risk tasks. Very thin gloves offering outstanding comfort and fit. Excellent dexterity and tactility for handling small parts or tools. Excellent dry grip.



HyFlex® 11-849

The fully dipped design offers the worker a 360° protection against scratches, snags and dirt, while the thin foam nitrile coating allow the hand to breath for better comfort.



HyFlex® 11-819 ESD

The perfect combination of comfort, dexterity with ESD/ Touchscreen compatibility.



AlphaTec® Solvex® 37-676

High comfort, fully reusable glove, with an unequaled abrasion resistance. Reversed lozenge finish further enhances levels of grip.



EDGE® 48-126

Inexpensive light duty glove with ANSI Abrasion 4 and good tear resistance, good grip and improved productivity.



HyFlex® 11-818

The Ansell FORTIX™ foam coating lasts longer than comparable styles under abrasive conditions, reducing the total cost of ownership. Liner provides a comfortable "second skin" feel.



AlphaTec® Solvex® 37-675

Versatile flocked glove of 0.38mm, performing across a diverse range of applications.

4. <https://www.ishn.com/articles/107351-keep-facts-handy-5-simple-statistics-to-motivate-hand-protection>

Note: Product availability may vary. These styles serve as examples only. For tailored recommendations for your unique needs and applications, please request an AnsellGUARDIAN® assessment.

CHEMICAL PROTECTION

Throughout production, automotive workers are exposed to a variety of harsh chemicals including acids, bases, adhesives or solvents. Without proper PPE, workers may experience chemical burns or any other type of skin irritation. Repetitive and prolonged exposure to these chemicals can prove toxic to the worker and severely affect their skin or respiratory system. Thick, nonporous PPE is needed that will prevent liquids from leaking inside and touching the skin, with the durability to withstand scrubbing and sharp corners. Ansell's industry-leading chemical protection portfolio includes solutions with varying levels of resistance against acids, organic and inorganic chemicals, and biological agents.



AlphaTec® 58-335

The AlphaTec® AQUADRI™ gloves address the most relevant need for workers' sweat reduction. Less sweat equals greater comfort and performance. Shorter AlphaTec® 58-330 version available.



AlphaTec® 58-530B

Chemical protective and oil-resistant waterproof gauntlet glove offers a unique combination of liquid-proof chemical resistance and grip, together with flexibility and dexterity, making this glove the logical choice when working with chemicals.



AlphaTec® Solvex® 37-675

Versatile flocked glove of 0.38mm, performing across a diverse range of applications.



MICROFLEX® 93-260

Three-layer design for superior protection against harsh chemicals. Nitrile and neoprene offer broad resistance to acids, bases and solvents. Disposable glove with 12" length.



MICROFLEX® XTRA 93-862

Made of a soft yet strong nitrile, for comfortable, durable protection in the event of chemical splashes. Examination grade with 12" length.



TouchNTuff® 92-600

The world's leading disposable glove for chemical splash protection. Renowned for superior comfort and durability with a smooth, comfortable feel.



AlphaTec® 2000 Standard - Model 111

Superior protection from low hazard liquid spray and fine particulates.

Note: Product availability may vary. These styles serve as examples only. For tailored recommendations for your unique needs and applications, please request an AnsellGUARDIAN® assessment. Or use our self-service AnsellGUARDIAN® Partner tool to search our extensive chemical permeation and degradation data to identify the appropriate hand and body protection for the chemicals you use.

ERGONOMIC PROTECTION

According to the Bureau of Labor Statistics (BLS), musculoskeletal disorders accounted for nearly half of the injuries within the Automotive manufacturing industry which resulted in time away from work in 2018.⁵ These disorders are often caused by repetitive movements, overexertion of the muscle, and improper positioning while working. Selecting the right ergonomic PPE can help reduce the risks of damage to bones and joints. Gloves designed with Ansell's proprietary ERGOFORM™ Ergonomic Design Technology have been proven to effectively minimize discomfort from prolonged repetitive hand movements, enabling workers to work confidently and comfortably for longer.



HyFlex® 11-816

Ultra-thin ergonomic design improves fingertip sensitivity for extreme comfort and a barehand feel while performing precision tasks.



HyFlex® 11-812

Patented knitted design allows the glove to easily tear at multiple high-risk areas to minimize the risk of entanglement in rotating tools. Provides excellent tactility to grab even the smallest parts.



HyFlex® 11-840

Outstanding durability and unmatched comfort. Longer lasting handling in abrasive conditions. Proprietary ANSELL GRIP™ Technology enhances flexibility and grip. Nylon and spandex liner improves breathability and range of movement.



HyFlex® 11-931

Palm-coated cut resistance which repels oil and liquid combined. A reinforced thumb crotch extends glove life. Minimizes risk of hand fatigue and the development of cumulative trauma disorders.



HyFlex® 11-937

Enhanced durability with 18-gauge design for enhanced dexterity and high-level comfort.



HyFlex® 11-939

Our lightest weight durable solution with multi-risk cut, oil and liquid protection. 18-gauge design for enhanced dexterity and high-level comfort.



MICROFLEX® 93-833

Ansell's most durable thin nitrile disposable glove designed to reduce hand fatigue and improve performance.



AlphaTec® 58-128

Provides quantifiable ergonomic benefits to the wearer and delivers high-performance musculoskeletal support. Conforms to the shape of the wearer's hand enabling natural movement.



AlphaTec® 53-001

Multi-barrier chemical protection thanks to an innovative multi-layer polymer design - nitrile/neoprene/nitrile layers. Features ANSELL GRIP™ Technology for the handling of wet or oily parts providing enhanced dexterity, grip and comfort.



AlphaTec® 1800 Comfort - Model 195

Lightweight and breathable coverall with optimized body fit, improving wearer comfort and safety.

5. <https://www.bls.gov/opub/ted/2020/motor-vehicle-manufacturing-nonfatal-injury-and-illness-rate-twice-as-high-as-private-industry.htm>

Note: Product availability may vary. These styles serve as examples only. For tailored recommendations for your unique needs and applications, please request an Ansell GUARDIAN® assessment.

IMPACT PROTECTION

When maintaining and operating machinery with rotating and pneumatic parts, such as forklifts and conveyors, workers are faced with the risk of crush and pinch injuries to their hands. Even easy tasks such as shutting a truck door can end up in a pinch point injury. Ensuring workers consistently wear the proper hand protection throughout the day can reduce the risk of accidents and incidents. Ansell's Ringers Impact Protection System protects workers against the risk of impact while providing superior comfort and dexterity.



RINGERS® R133

Single layer mesh with synthetic palm and touchscreen compatibility, when dexterity and flexibility matter most.



RINGERS® R161

High visibility impact protection with synthetic red leather padded palm and touchscreen compatibility for comfort and ease-of-use. Excellent for all-day automotive tasks.



RINGERS® R163

Impact protection for general use or maintenance of automotive machinery. Synthetic leather padded palm and touchscreen compatibility for comfort and ease-of-use.



RINGERS® R138

Single layer high-viz mesh with synthetic palm and touchscreen compatibility, when dexterity and flexibility matter most.



RINGERS® R065

Nitrile half dip palm combined with protection against impact hazards and 360° cut resistance. Breathable knit shell and patented TPR design provide superior dexterity and comfort.

Note: Product availability may vary. These styles serve as examples only. For tailored recommendations for your unique needs and applications, please request an AnsellGUARDIAN® assessment.

VIRAL PROTECTION

As a result of COVID-19, workplaces must consider the need to protect against the spread of illness and viral infection. Ansell offers a wide range of solutions that comply with the World Health Organization's guidance regarding infection prevention and control. In order to make an informed decision, product purchasers and users should stay abreast of the latest and most complete information regarding appropriate PPE to protect against COVID-19 and other viruses in their specific environments and applications.



MICROFLEX® 93-833

Ansell's most durable thin nitrile disposable glove. Featuring ERGOFORM™ Technology to reduce hand fatigue and improve performance. Examination grade.



MICROFLEX® 63-864

Durable latex disposable glove with enhanced finger thickness for extra protection. Textured fingertips for a confident grip. Examination grade.



MICROFLEX® 93-852

Black nitrile examination grade disposable glove offers tough protection. Fully textured for a confident grip.



TouchNTuff® 92-600

The world's leading disposable glove for chemical splash protection.



AlphaTec® Solvex® 37-676

Tested and certified for protection against viruses according to the EN ISO 374-5 VIRUS standard. High performance, latex-free formulation provides chemical resistance in wet or dry work environments.



AlphaTec® Solvex® 37-675

Versatile flocked glove of 0.38mm, performing across a diverse range of applications.



AlphaTec® 2000 Ts PLUS - Model 111

Guards against liquids and particulate biological hazards. Certified according to the EN 14126 standard to protect against infective agents such as bacteria, fungi and viruses and ASTM F 1671.



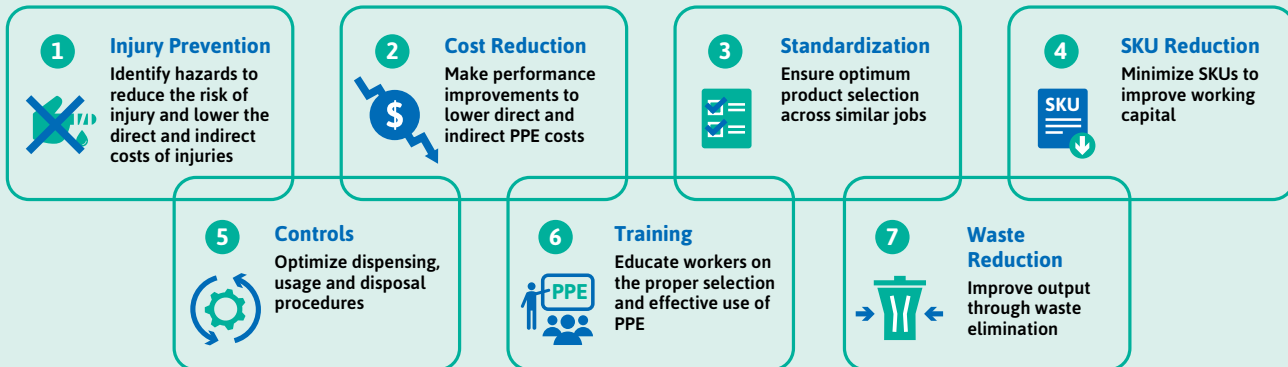
AlphaTec® 2300 PLUS - Model 132

Protective barrier to numerous inorganic liquid chemicals including acids and bases. Certified according to the EN 14126 standard to protect against infective agents such as bacteria, fungi and viruses and ASTM F 1671.

Note: Product availability may vary. These styles serve as examples only. For tailored recommendations for your unique needs and applications, please request an AnsellGUARDIAN® assessment. Gloves not labeled "examination grade" are not designed for use in medical or patient care settings. HyFlex® 11-100 will not protect against liquids or other substances that will cross a permeable membrane.



AnsellGUARDIAN® is our consultative service to help companies select and implement the right personal protective equipment solutions to improve safety, increase productivity and reduce costs. Using our 125 years of experience, proprietary software system and database of over 30,000 chemicals, we analyze PPE needs and identify the solutions that will work best for each company's unique risks and applications. As an industry pioneer with the most advanced technology and analytics, we have evaluated and implemented best business practices in over 15,000 facilities worldwide, reducing injuries and saving companies a total of \$165M. AnsellGUARDIAN® assessments address 7 functional areas:



Get Started Today

There's no cost for an AnsellGUARDIAN® assessment. Learn how we can help you reduce injuries, improve productivity and lower costs. Contact your local Ansell Sales Representative or Customer Service Representative today.

ABOUT ANSELL

As a global leader in personal protective solutions with over 125 years of experience in keeping people safe, Ansell's mission is to provide innovative and reliable solutions for safety, well-being and peace of mind to workers around the world. Our global team of more than 12,000 people in 55 countries design, manufacture and market cutting edge PPE that millions of workers in industrial and healthcare settings rely upon every day. We offer a comprehensive portfolio of hand and body protection products and provide customers with tailored solutions to meet their unique needs across a wide range of industries and applications.

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WARNING: 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 offering "viral protection" do not completely prevent the transmission of disease. Products that provide "chemical resistance" or "chemical protection" do not completely prevent or eliminate the potential for injury due to chemical exposure. 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 against sparks or flames are not "fireproof" and do not completely prevent or eliminate the potential for burns or associated injuries. Products that provide protection or resistance against heat or cold are not intended for use in extreme temperatures – use only as specified. Products containing natural rubber latex may cause allergic reactions in some individuals. Products that provide "impact, crush and pinch protection" do not completely eliminate the potential for impact or crush related injuries. 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. It is the responsibility of a product user to assess the level of risk and to determine the protective equipment required or appropriate for the user's particular purpose. Ansell may revise this information as new information, knowledge or experience becomes available. ANSELL DISCLAIMS ALL WARRANTIES OTHER THAN AS EXPRESSLY PROVIDED.