

A close-up photograph of a person's hands wearing Ansell work gloves. The gloves are grey with yellow and red accents. The person is using a silver wrench to work on a blue metal structure. The background is slightly blurred, showing more of the metal structure and a dark jacket.

**Ansell**

## UTILITIES & PUBLIC WORKS

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Hazards & Solutions

[ansell.com](https://www.ansell.com)





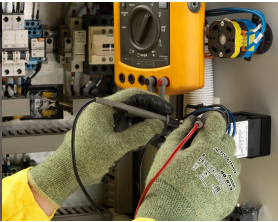

# UTILITIES & PUBLIC WORKS



Safety protocol and appropriate PPE is especially important for workers in the utility and public works industries. The sector has a recordable incidents rate of 3.5%, above the 3.1% average for the U.S.<sup>1</sup> Public utilities specifically have an even higher rate at 5.3%. These cases also result in greater days away from work, among other consequences. Furthermore, individuals often work alone and in isolated areas, increasing the risk and extending response time when an accident occurs.

The industry also has a need for increased investment in job-skill training and career development, a significant factor in preventing injury. In a 2019 survey<sup>2</sup>, utility workers were 53% more likely than peer industries to express concern over training, and 54% more likely to worry about injury as a result. Understanding job tasks and the hazards associated along the way leads to improvement in both these areas. Additionally, the survey highlighted electrical hazards, gas and chemical exposure, and general ergonomic issues as some of the biggest concerns. This reinforces appropriate PPE requirements to mitigate the risks of injury when encountering hazards.

Ansell is your safety partner when identifying hazards and injury risk associated with each task and equipping utility workers with the right solution from our extensive portfolio of hand and body protection. Whether facing risk of cut, impact, abrasion or other hazards, Ansell can help you reduce on-the-job injury and deliver the **comfort, performance** and **protection** needed to keep utility workers safe and productive throughout the day.

|                      |   |   |  |   |
|----------------------|---|---|--|---|
| PUBLIC WORKS SECTORS |  |  |  |  |
|                      | CONSTRUCTION  | MAINTENANCE   | POWER GENERATING OPERATION   | WORKING AT HEIGHTS  |
| PRIMARY HAZARDS      | Impact, Abrasion  | Cut, Abrasion, Electrical   | Electrical   | Cut, Impact, Abrasion, Electrical   |
| SECONDARY HAZARDS    | Cut, Ergonomics   | Impact, Ergonomics  | Cut, Impact, Abrasion  | -   |

|                      |   |   |  |   |
|----------------------|---|---|--|---|
| PUBLIC WORKS SECTORS |  |  |  |  |
|                      | CONFINED SPACE  | WASTE AND RECYCLING   | WATER SEWAGE TREATMENT   | HEAVY MACHINERY AND EQUIPMENT OPERATION   |
| PRIMARY HAZARDS      | Impact, Abrasion  | Cut, Abrasion, Chemical   | Chemical   | Cut, Abrasion, Impact   |
| SECONDARY HAZARDS    | Cut   | Impact, Ergonomics, Viral   | Ergonomics   | -   |

1. 2018 U.S. Bureau of Labor Statistics – based on trade, transportation and utilities supersector (Transportation is Federal, Utilities is Local) [https://www.bls.gov/web/osh/summ1\\_00.htm#soii\\_as\\_t1.f.9](https://www.bls.gov/web/osh/summ1_00.htm#soii_as_t1.f.9) / <https://www.bls.gov/iag/tgs/iag48-49.htm>  
 2. 360training.com, a provider of online OSHA and EHS training, surveyed more than 1,000 adults - <https://www.tdworld.com/electric-utility-operations/media-gallery/20972680/top-five-safety-concerns-for-utility-workers>



## UTILITIES & PUBLIC WORKS HAZARDS & SOLUTIONS

Overall, more than 10% of injuries in the utility and public works industry occur to the hand, second only to injuries to the lower back. The utility workforce encounters many occupational hazards due to varying tasks, including construction, operation, and extensive maintenance activities across electric power, natural gas, steam or water supply and sewage removal.

Ansell offers an expansive portfolio of protection solutions to guard against hazards such as cut, electrical, and impact risks. Additionally, Ansell's chemical hand and body protection safeguard utility workers exposed to chemical splash hazards, while Ansell's innovative technologies focus on ergonomic and overall health and wellness to prevent fatigue and aggravation.

### CUT PROTECTION

Workers in the utility sector use tools that leave them exposed to cut hazards from sharp edges intended for cutting wire, pipe and other materials, and may encounter jagged or broken edges that can cause cuts and lacerations while working with waste or other raw materials.

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. ANSELL GRIP™ Technology is a coating treatment that minimizes the force required to grip tools or materials, improving safety and productivity.



#### HyFlex® 11-738

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



#### 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® 11-542

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



#### HyFlex® 11-644

INTERCEPT™ Technology for 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, making it the best choice for all-day comfort. Seamless design with INTERCEPT™ Technology. Engineered to perform in combination with any HyFlex® cut-resistant glove.



#### HyFlex® 11-281

*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.*



## ERGONOMIC PROTECTION

In addition to utility hazards, extended shifts and high levels of interaction with hand tools require a focus on ergonomic grip and comfort to prevent hand injuries such as muscular fatigue and strains. 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.



### MICROFLEX® XCEED™ XC-310

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



### MICROFLEX® Ultraform™ UF-524

Comfortable, ultra-thin nitrile glove that offers affordable, tactile protection. Featuring ERGOFORM™ Technology to reduce hand fatigue and improve performance.



### HyFlex® 11-931

Palm-coated cut resistance which repels oil and liquid combined. A reinforced thumb crotch extends glove life. ERGOFORM™ Technology 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

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



### MICROFLEX® Neogard™ C52

Neoprene glove with textured finish for exceptional grip in wet or dry conditions. ERGOFORM™ Technology to reduce hand fatigue and improve performance.

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.



## ABRASION PROTECTION

When maintaining utilities and public works infrastructures, tools and equipment can expose workers' hands to the risk of abrasion and scrapes as a result of contact with moving parts or external elements such as brush or debris. Ansell's FORTIX™ Technology enhances the coating performance with a resilient polymer formulation to extend the working life of the glove while improving worker comfort.



### HyFlex® 11-819 ESD

The perfect combination of comfort and dexterity with ESD/Touchscreen compatibility. The ultra-thin coating provides increased sensitivity for precision tasks and Ansell FORTIX™ Abrasion Resistance Technology provides long-lasting protection in abrasive environments.



### 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® 11-727

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



### HyFlex® 11-818

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

*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

When tasked with public water operation, maintenance and delivery, a common hazard faced will be the handling of chemical treatments to ensure clean water. This exposes utility workers to chemical liquid or chemical splash hazards that can result in severe burns to extremities. Additionally, sewage and waste management exposes workers to risk of chemical splash. Ansell's industry-leading chemical protection portfolio includes solutions with varying levels of resistance against acids, organic and inorganic chemicals, and biological agents.



### AlphaTec® Solvex® 37-185

High comfort nitrile chemical resistant glove with protection to the top of the elbow and sandpatch finish.



### AlphaTec® Solvex® 37-155

High performance nitrile compound providing an outstanding combination of chemical resistance and strength for optimal results in wet or dry work environments.



### 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.



### 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.



### AlphaTec® 1800 STANDARD 111 + comfort versions

Good protection from low hazard liquid spray and fine particulates with bound seams for improved overall protection.



### AlphaTec® 2300 STANDARD Model 111

Lightweight and durable chemical protection against a range of inorganic chemicals and biological hazards.



### AlphaTec® 4000 STANDARD Model 111

Engineered to provide an exceptional barrier against a wide range of organic and inorganic chemicals and biological agents.

*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.*



## IMPACT, CRUSH & PINCH PROTECTION

During construction and maintenance of utility and public works infrastructure, workers operating heavy machinery with moving parts or pneumatic equipment put their hands at risk of crush and pinch impacts. Many tasks include the use of large tools and heavy materials further exposing hands to hazards which can lead to devastating injuries if not properly protected. Ansell's Ringers Impact Protection System protects workers against the risk of impact while providing superior comfort and dexterity.



### RINGERS R-167

Certified impact protection with A3 cut resistance, for versatile and complete protection for general tasks in any industrial environment. Features comfortable padded synthetic leather palm and touchscreen compatibility for technology interaction.



### RINGERS R-065

Innovative combination of certified impact and 360° cut protection combined with superior dexterity. Touchscreen compatibility provides versatility and ultimate comfort for extended wear in a variety of end uses.



### RINGERS R-665

Premium leather impact glove and excellent cut protection for ultimate comfort, durability, and performance. Single piece palm and point finger-tip construction enhances flexibility and dexterity when handling tools and objects.



### RINGERS R-169

High visibility impact glove with secure cuff and dual-layer synthetic leather palm for versatile E/A5 rated cut protection. Ideal for handling heavy tools and machinery requiring complete safety against crush, pinch and cut injuries.



### RINGERS R-161

High visibility impact protection with synthetic red leather padded palm and touchscreen compatibility for comfort and ease-of-use. Excellent for all-day versatility performing general maintenance and operation activities.



### RINGERS R-179

High visibility impact glove with slip-on cuff and dual-layer synthetic leather palm for versatile E/A5 rated cut protection. Great for working with pneumatic or rotating machinery where catch hazards may require quick glove removal.

*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.*

## ELECTRICAL AND ARC FLASH PROTECTION

Constructing and maintaining power generating and transporting infrastructure exposes utility workers to risk of electrical shock and flame. While working around electricity, it is important to practice lockout tagout procedures when performing tasks, as this is the greatest control against electrical hazards. Workers should also wear appropriately rated arc flash and flame-resistant gloves and PPE.



### ActivArm® 80-813

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



### ActivArm® 43-217

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



### ActivArm® 43-216

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



### ActivArm® 59-416

Lightweight and breathable protection from high heat and flying molten particles and sparks.

*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 informed 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® MidKnight™ MK-296

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



## MICROFLEX® Cobalt™ N19

Multi-purpose medical exam grade nitrile glove offers consistent comfort and durability to workers across a wide range of industries.



## MICROFLEX® Supreno™ SE SU-690

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



## HyFlex® 11-100

The only industrial glove designed with Ionic+™, an EPA-registered antimicrobial technology. The gloves include self-sanitizing 360° antimicrobial protection of both the liner and coating and is also touchscreen compatible for use with a wide range of devices.



## 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® Solvex® 37-175

Tested and certified for protection against viruses according to the EN ISO 374-5 VIRUS standard. Rugged chemical resistance with superior snag, puncture and abrasion resistance.



## 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.



## MICROFLEX® Ultraform™ UF-524

Medical exam grade, thin nitrile glove reliably protects hands while offering exceptional dexterity for jobs requiring fine motor control.



## MICROFLEX® Diamond Grip™ MF-300

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



## AlphaTec® 87-208

Tested and certified for protection against viruses according to the EN ISO 374-5 VIRUS standard. 29 mil thickness delivers added protection. Diamond surface texture provides superior grip.



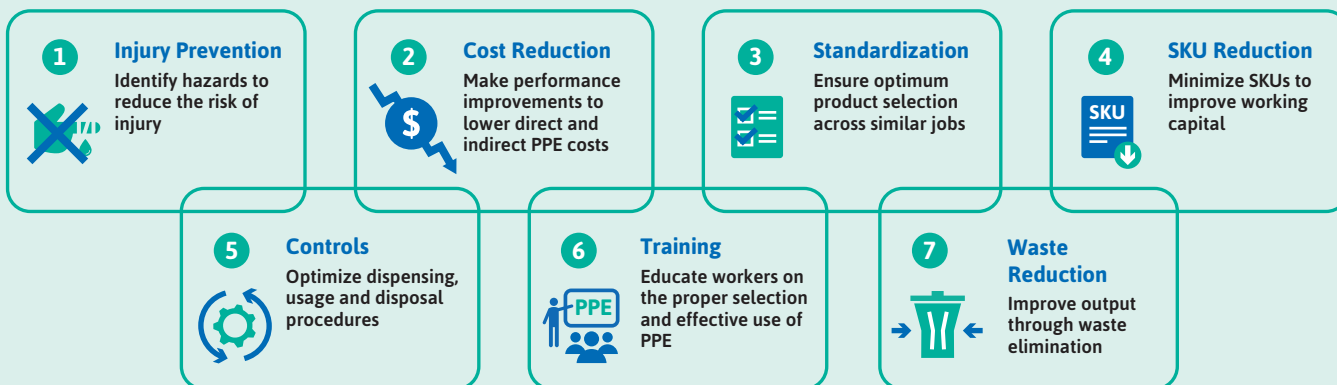
## AlphaTec® 87-224

Tested and certified for protection against viruses according to the EN ISO 374-5 VIRUS standard. Thick liner delivers durable protection. Diamond surface texture provides superior grip.

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.



AnsellGUARDIAN<sup>®</sup> 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<sup>®</sup> assessments address 7 functional areas:



### Get Started Today

There's no cost for an AnsellGUARDIAN<sup>®</sup> 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 that provide vibration resistance, "abrasion resistance" or "abrasion protection" do not completely prevent or eliminate the potential for vibration or abrasion-related injuries. 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.