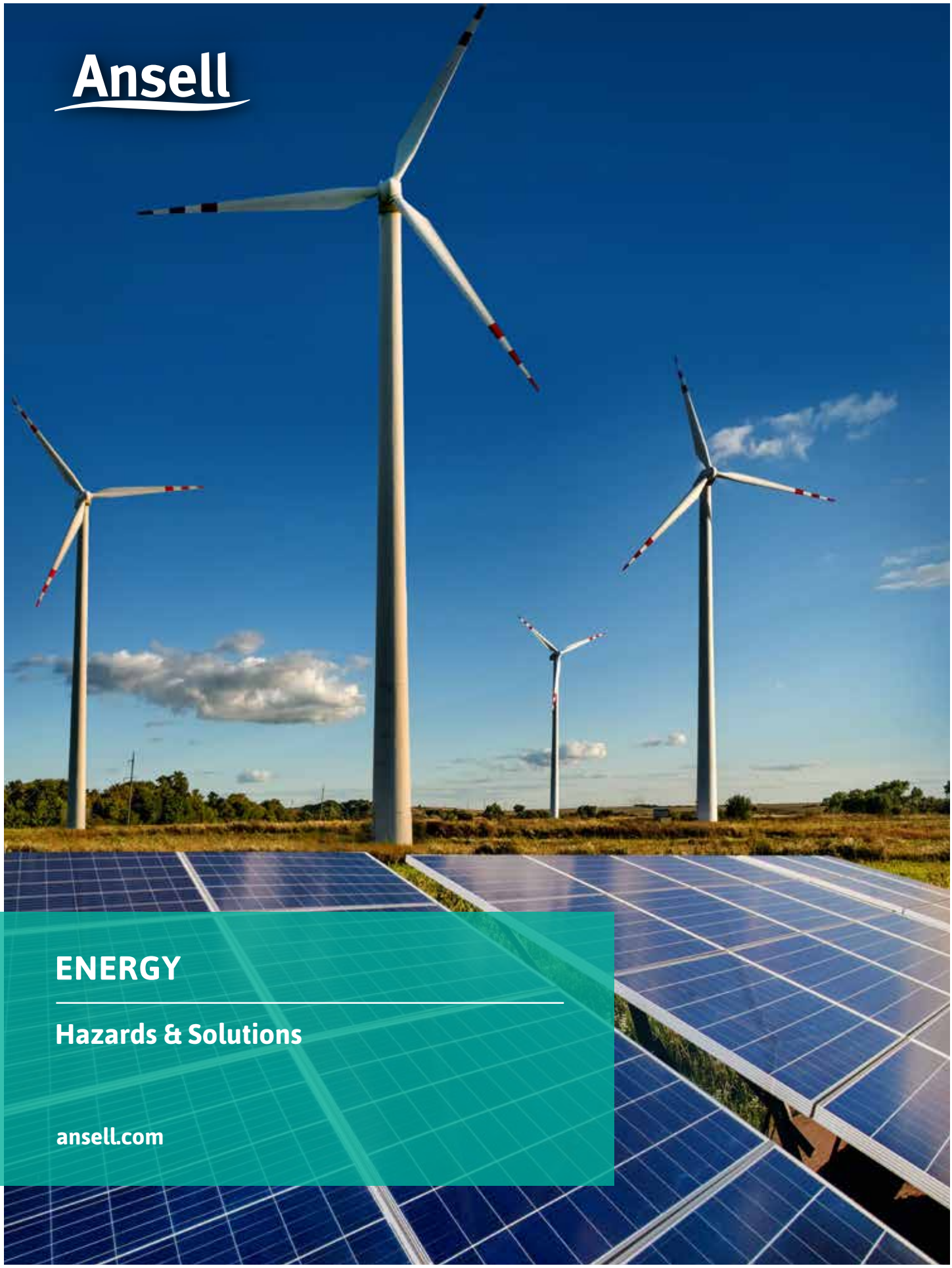
Ansell



ENERGY

Hazards & Solutions

ansell.com

ENERGY

Energy workers encounter countless risks on the job due to the multitude of specific tasks they perform daily. Mitigating these risks begin with protocols driven by the energy safety culture and ends with each worker's proper PPE, including specialty impact, chemical, cut, oil, and electrical gloves.

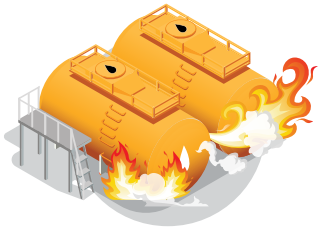
While fire and explosions are the third most common cause of fatal work injuries in the industry, historically, hand and finger injuries make up nearly 50 percent of all incidents. At times that number is closer to 80 percent of all recordable incidents. Having the proper hand and body protection is of extreme importance to minimize injuries and fatalities. For protection against the risk of cut, impact, chemical splash, fire, and other hazards in the energy industry, Ansell provides a wide range of best-in-class solutions.

WHAT ARE THE ENERGY INDUSTRY HAZARDS?

High visibility, waterproof, impact-absorbing, chemical-resistant, high durability, high dexterity, and better grip are features of gloves used in the energy industry. High-performance PPE hand protection is required for medium to heavy-duty tasks. Such tasks include the use of hand tools, pipe handling, and value operation, where being "struck by" and "caught between objects" tend to be the source of recordable incidents. Handling and positioning of heavy equipment often result in trapped or crushed fingers and hands. Flash fires, while less common, are just as serious as most result in extreme thermal injuries when fire-resistant body protection is not worn. Despite the efforts by energy companies, specifically those in the oil and gas sector, the industry statistic indicates that the number of hand and finger injuries are increasing year over year. Ansell's extensive portfolio of hand and body protection ensures the safety of energy workers and the products they handle.

PRIMARY HAZARDS IN THE ENERGY INDUSTRY

Impact Risk



Flash Fire Explosion

Electrical Risk

Exposure to Oil Fluids

Release of Toxic Vapors

Musculoskeletal Disorders

Extreme Temperatures

Cut Risk

UPSTREAM & DOWNSTREAM DEFINED

Upstream oil and gas is the second largest sector of the energy industry. Upstream encompasses activities related to searching for, recovering, and producing crude and natural gas. The three key Upstream activities include exploration, drilling, and unconventional drilling.

Offshore is an operational segment of Upstream oil and gas. Offshore is the process of drilling for oil and gas underseas. Extraction, transportation, and environmental protection are all comparatively more difficult in this environment.

Downstream oil and gas is the largest segment of the energy industry. Downstream supplies thousands of products to end users across the globe. The Downstream industry includes complex and diverse activities including manufacturing, refining, and distribution and retail of the oil and gas.

RENEWABLE ENERGY DEFINED

Local and federal governments are encouraging greener energy solutions to better our environment, for today and the future. Using renewable energy reduces carbon emissions in the atmosphere through a more sustainable energy system.

The renewable energy segment is the fastest-growing segment of the industry. Renewable energy is defined as "energy from a source that is not depleted when used, such as wind or solar power."[1]

Solar power and wind power have the first and second largest impacts within the renewable energy industry, respectively. Workers in these fields need to be protected during the installation, construction, operations, and maintenance of this energy. Ansell supplies the right Multi-Purpose, Electrical, and Disposable protections for the task.

1. *Oxford Dictionary*

IMPACT PROTECTION

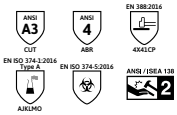
When working in areas where high-risk activities are performed daily, hands may easily be exposed to hazards of crush and pinch impacts. High-performance hand protection is required for medium to heavy-duty tasks including the use of hand tools, pipe handling, valve operation, or positioning of heavy equipment. With our proprietary Thermoplastic Rubber (TPR) design, RINGERS® gloves provide maximum coverage of the full length of the fingers, thumb, and back of hand all while maintaining maximum durability, dexterity, and comfort.

RINGERS® R-267

Heavy duty impact glove with TPR protection on top of hand and full length of fingers. Silicone dot grip system on palm resists oil and enhances grip when working with equipment in oily environments. High visibility and DuPont™ Kevlar® stitching provides additional safety protection.

RINGERS® R-074

Short cuff chemical impact glove with a PVC coating, combining waterproof and rated chemical resistance with protection against impact hazards and cuts, providing chemical protection in heavy duty environments.



RINGERS® R-075

Long cuff chemical impact glove with a PVC coating, combining waterproof and rated chemical resistance with protection against impact hazards and cuts, providing chemical protection in heavy duty environments.

RINGERS® R-065

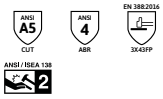
Breathable knit shell offers 360° cut resistance, while the half-dipped nitrile coating on palm with a sandy finish provides enhanced grip. High visibility TPR impact protection on top of hand and full length of fingers to protect against crush and pinch injuries in any environment.

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.

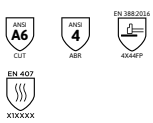
RINGERS® R-169

TPR impact protection on top of the hand and full length of fingers with synthetic leather palm for enhanced grip and additional palm layer for enhanced cut resistance. Added security and durability with secure cuff and wrap around index finger protecting wear and tear zone.



RINGERS® R-068

Breathable knit shell offers 360° cut resistance, while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. TPR impact protection on top of hand and full length of fingers. Patented double dipped technology for a full nitrile in smooth finish for liquid resistance.



RINGERS® R-080

Internal liquid-proof barrier added to the breathable knit shell offers 360° cut and liquid resistance while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. High visibility TPR impact protection on top of hand and full length of fingers.

RINGERS® R-085

Breathable knit shell offers cut resistance, while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. TPR impact protection on top of hand and full length of fingers with fleece lining for weather protection, and a thumb saddle patch to reinforce wear and tear zones. Includes index, middle, and thumb tips with touchscreen compatibility.

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.

RINGERS® R-259

Heavy duty impact glove with high visibility TPR impact protection on top of hand and full length of fingers. Durable synthetic leather palm for enhanced grip with additional palm layer for enhanced cut resistance. Waterproof barrier to keep hands dry with a liquid resistant coating on top of hand.

RINGERS® R-297

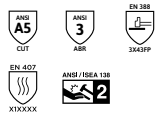
Heavy-duty impact gloves with F3 Technology™, TPR design, and Kevlar® stitched line for abrasion and cut resistance.

RINGERS® R-260

Heavy-duty impact gloves with high-visibility surface and TPR design for improved safety. High-grade cotton palm extends wear life and offers cut resistance.

RINGERS® R-179

Medium-duty impact gloves with F3 Technology™ and TPR padding on top of the hand and full length of fingers. Additional synthetic leather palm enhances grip performance and offers high-level of cut resistance.



FLASH FIRE PROTECTION

Workers in the energy industry face the risk of fire and explosion due to ignition of flammable vapors or gases. Flammable gases, such as well gases, vapors, and hydrogen sulfide, can be released from wells, trucks, production equipment or surface equipment such as tanks and shale shakers. Ignition sources can include static, electrical energy sources, open flames, lightning, cigarettes, cutting and welding tools, hot surfaces, and frictional heat.

AlphaTec® 4000 CFR Stitched & Taped - Model 111

Flame-retardant multi-hazard solution suit with exceptional chemical protection. Wearer is protected from chemical spray without compromising wearer safety by limiting flame spread in the event of a flash fire.

AlphaTec® 1500 PLUS FR Stitched - Model 111

Particle-filtering, anti-static SMS protective suit, delivering light chemical resistance Anti-static SMS protective light chemical resistance suit that filters 99.9% of particles over 3 microns in size. Offers enhanced fit and breathability for better comfort.

AlphaTec® CFR Stitched & Taped - Model 111

Flame retardant treated fabric with PVC barrier film offers wearers protection in certain applications where there is the possibility of contact with chemical spray without compromising mitigating protection in the event of a flash fire.

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 PROTECTION

Workers might be exposed to uncontrolled electrical, mechanical, hydraulic, or other sources of hazardous energy if equipment is not designed, installed, and maintained properly. Electrical current exposes workers to a serious, widespread workplace hazard while completing their daily responsibilities, and many are unaware of the potential electrical hazards present in their work environment – making them vulnerable to the danger of electrocution.

RIG0011B

RIG0011R

ActivArmr® RIG0011B / RIG0011R

Glove Size	7-10
Glove Length	11" (280 mm)
Glove Colour	Black, Red
Packaging Configuration	1CS=2 Pieces/ 2 Pieces=1 Pair
Packaging Dimension	H: 356 X L: 403 X W: 399 (mm)

RIG011B

RIG011R

RIG011Y

ActivArmr® RIG011B / RIG011R / RIG011Y

Glove Size	7-12
Glove Length	11" (279.4 mm)
Glove Colour	Black, Red, Yellow
Packaging Configuration	1CS=2 Pieces/2 Pieces=1 Pair
Packaging Dimension	H: 356 X L: 363 X W: 399 (mm)

RIG214B

ActivArmr® RIG2141B

Glove Size	8-12
Glove Length	14" (355.6 mm)
Glove Colour	Black
Packaging Configuration	1CS=2 Pieces/ 2 Pieces=1 Pair
Packaging Dimension	H: 356 X L: 403 X W: 399 (mm)

RIG216YBSC

ActivArmr® RIG216YBSC

Glove Size	8-12
Glove Length	16" (406.4 mm)
Glove Colour	Black
Packaging Configuration	1CS=2 Pieces/ 2 Pieces=1 Pair
Packaging Dimension	H: 551 X L: 505 X B: 399 (mm)

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.

RIG418B

ActivArmr® RIG418B

Glove Size	8-12
Glove Length	18" (457.2 mm)
Glove Colour	Black, Bi-color Black/ Yellow
Packaging Configuration	1CS=2 Pieces/ 2 Pieces=1 Pair
Packaging Dimension	H: 551 X L: 505 X B: 399 (mm)

ActivArmr® 96-001 Canvas Bag

Essential storage solution for your electrical insulating gloves that protects the gloves from folding and keeps them out of excessive heat, sunlight, humidity, ozone, and chemicals or substances that could damage the rubber.

ActivArmr® 96-002

Low voltage leather premium goat skin leather protector.

ActivArmr® 96-003

High voltage leather premium goat skin leather protector.

OIL PROTECTION

When working at the wellsite, during transportation of fluids, or even at the shop, oil and gas workers are exposed to oils such as hydraulic fluids. 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 and proper handling of medium to heavy duty tools and equipment.

RINGERS® R-068

Impact glove with a breathable knit shell that offers 360° cut resistance, while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. TPR impact protection on top of hand and full length of fingers. Patented double dipped technology for a full nitrile in smooth finish for liquid resistance.

RINGERS® R-080

Internal liquid-proof barrier added to the breathable knit shell offers 360° cut and liquid resistance, while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. High visibility TPR impact protection on top of hand and full length of fingers.

RINGERS® R-259B

Heavy-duty impact glove with high visibility TPR impact protection on top of hand and full length of fingers. Durable synthetic leather palm for enhanced grip with additional palm layer for enhanced cut resistance. Waterproof barrier to keep hands dry with a liquid resistant coating on top of hand.

HyFlex® 11-925

Ultimate performance and comfort for oily environments. Our first ultra lightweight HyFlex® style to combine a ¾ dip geometry, RIPEL™ Liquid Repellence Technology for oil repellence and ANSELL GRIP™ for oil grip. The result is a highly dexterous, high comfort glove.

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.

HyFlex® 11-920

Provides high performance grip and oil repellence when handling tools while working in oily environments.

EDGE® 48-919

Good combination of grip and oil repellence provides a reliable glove for any situation you may encounter.

AlphaTec® 2000 STANDARD - Model 111

Made from superior breathable microporous laminate technology to provide superior protection from low hazard liquid spray and fine particulates. Tunneled elasticated 3-piece hood, wrists and ankles help minimize the risk of linting and cross contamination.

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.

AlphaTec® 3000 Ultrasonically Welded - Model 111

Multi-layer chemical barrier fabric provides effective protection against a wide variety of chemicals

CHEMICAL PROTECTION

Workers who use hazardous chemicals during work processes, for example during hydraulic fracturing, might be exposed to hazardous byproducts of oil and gas drilling. Possible hazards include chemical burns from caustic substances and toxic vapors.

It is also important to know the potential means for contamination, such as vapors, spray, splash and immersion; and the route of exposure to the workers, such as inhalation or skin absorption. Many studies from OSHA (Occupational Safety and Health Administration) have shown that absorption of chemicals through the skin can occur without being noticed by the worker.

AlphaTec® 53-001

Multi-layer polymer design of nitrile/ neoprene/nitrile layers provides chemical protection against a wide range of chemicals from acids and bases to hydrocarbons and organic solvents. MICROCHEM™ Chemical Barrier Technology provides superior protection for use in hazardous environments.

AlphaTec® 58-530B **AlphaTec® 58-535B**

AlphaTec® 58-530B/535B

Reliable liquid-proof chemical protection. ANSELL GRIP™ Technology 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.

AlphaTec® 04-002 **AlphaTec® 04-003**

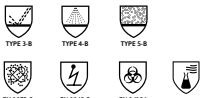
AlphaTec® 04-002/003

Medium weight PVC supported gloves with a comfortable, fleece liner and superb oil resistant coating. Secure grip for handling wet or oily foods and objects.

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.

AlphaTec® 2300 PLUS Stitched & Taped - Model 132

Lightweight, medium-duty polyethylene barrier against various inorganic chemicals while remaining durable.

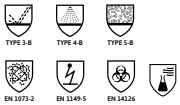


AlphaTec® 2000 STANDARD Bound - Model 111

Made from superior breathable microporous laminate technology to provide superior protection from low hazard liquid spray and fine particulates. Tunneled elasticated 3-piece hood, wrists and ankles help minimize the risk of linting and cross-contamination.

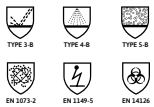
AlphaTec® 4000 Ultrasonically Welded & Taped - Model 111

Engineered to provide an exceptional barrier against a wide range of organic and inorganic chemicals and biological agents. Innovative multi-layer chemical barrier technology, Type 3/4/5 protection.



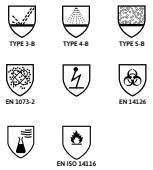
AlphaTec® 5000 - Ultrasonically Welded & Taped - Model 111

Engineered to protect with excellent protection and durability against a wide range of chemical hazards, and with outstanding permeation performance to numerous organic and inorganic chemicals, biological hazards and chemical warfare agents.



AlphaTec® 4000 CFR Stitched & Taped - Model 111

Flame-retardant multi-hazard solution suit with exceptional chemical protection. Proven 8-hour barrier against many chemicals including non-flammable and flammable and aggressive solvents.



AlphaTec® 3000 Ultrasonically Welded - Model 111

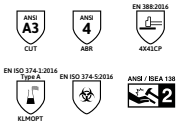
Lightweight, multi-layer barrier fabric that provides protection against numerous chemicals.

RINGERS® R-074

Short cuff chemical impact glove with a PVC coating, combining waterproof and rated chemical resistance with protection against impact hazards and cuts, providing chemical protection in heavy duty environments.

RINGERS® R-075

Long cuff chemical impact glove with a PVC coating, combining waterproof and rated chemical resistance with protection against impact hazards and cuts, providing chemical protection in heavy duty environments.



AlphaTec® 23-201

Long-sleeve PVC-coated gloves, ensuring comfort and dexterity even in cold conditions. Dipped sandblast finish ensures an excellent grip in wet conditions.

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.

COLD & HEAT PROTECTION (TEMPERATURE PROTECTION)

Well-site workers are exposed to extreme temperatures and should take precautions to stay safe. Dressing properly is extremely important to preventing cold or heat stress. The type of fabric worn also makes a difference. Cotton loses its insulation value when it becomes wet. Wool, silk, and most synthetics, on the other hand, retain their insulation even when wet. Just as important as having the proper body apparel, using the right hand protection for any given environment, such as knit, cotton, insulated or water-resistant gloves is just as crucial to mitigate the effects of cold or heat related hazards.

COLD

RINGERS® R-179

Medium-duty impact gloves with F3 Technology™ and TPR padding on top of the hand and full length of fingers. Additional synthetic leather palm enhances grip performance and offers high-level of cut resistance.

RINGERS® R-085

Breathable knit shell offers cut resistance, while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. TPR impact protection on top of hand and full length of fingers with fleece lining for weather protection, and a thumb saddle patch to reinforce wear and tear zones. Includes index, middle, and thumb tips with touchscreen compatibility.

RINGERS® R-279

Winter impact gloves with superior impact protection. High performance and heavy-duty durable water-resistant coated polyester. Fully lined with foam for extra insulation.

RINGERS® R-277

Thermal insulated impact protection with waterproof barrier and silicone dot palm, for enhanced grip in extreme elements. Synthetic leather palm with silicone dots for enhanced grip. DuPont™ Kevlar® stitched palm, with index, middle, and thumb tips for touchscreen compatibility.

RINGERS® R-266

Hands stay warm and dry with heavy winter-time impact protection and synthetic grip patches. Thermal/Waterproof Thinsulate liner, lined palm with patched and DuPont™ Kevlar® stitching. Wing thumb and point fingertips construction.

RINGERS® R-261

Heavy duty impact protection combined with thermal insulation and waterproof barrier on a cotton palm with cut protection. Includes high visibility and extended neoprene wrist closure for added safety and security.

ActivArmr® 97-631

Excellent grip and flexibility, even in the coldest temperatures.

AlphaTec® 23-202

Comfortable PVC glove designed to protect at low temperatures and warms the hands immediately after donning.

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.

AlphaTec® 19-024

AlphaTec® 19-026

AlphaTec® 19-024/026

Neoprene gloves with a double insulating liner to better resist cold environments.

AlphaTec® 09-022

Special Hi-Lo insulated gauntlet permits intermittent handling in cold temperatures.

HEAT

RINGERS® R-298

Vented mesh for better ventilation, with DuPont™ Kevlar® stitched palm with extreme grip and contact heat resistance combined with TPR impact protection on top of the hand and full length of fingers.

ActivArmr® 43-217

Our best welding glove provides users with high tactility and dexterity while keeping their hands protected and safe.

ActivArmr® 43-216

Excellent heat-resistant gloves offer high levels of durability, control and protection from heat, flame, sparks and puncture.

AlphaTec® 58-530B

AlphaTec® 58-535B

AlphaTec® 53-530B/535B

Nitrile gloves that offers light contact heat resistance along with liquid-proof chemical resistance. Contact heat level 1 with protection up to 212°F.

AlphaTec® 08-352/354

Neoprene chemical work glove with rough finish and light contact heat resistance. Contact heat level 1 with protection up to 212°F.

AlphaTec® 39-122

AlphaTec® 39-124

AlphaTec® 39-122/124

A reinforced nitrile glove, combining the durability and chemical resistance of nitrile, with the added strength and comfort of an interlock knit cotton liner. Contact heat level 1 with protection up to 212°F.

AlphaTec® 58-201

Unique nitrile formulation provides a chemical barrier against a wide range of chemicals. Equipped with ANSELL GRIP™ Technology for enhanced grip in wet and oily conditions.

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.

CUT PROTECTION

Workers in the energy industry are exposed to puncture and cuts through sharp objects including razor blades, sharp steel edges, and dangerous tools and machinery. These hazards are prominent during the machining, assembly, installation, operation, and field repair of oil field assets. To reduce the risk of cuts and infectious diseases, PPE plays an important role and full protection of the hand and arm can be achieved when combining the right gloves.

Ansell's cut resistant gloves are made with innovative technologies to provide outstanding cut protection with enhanced dexterity, grip and comfort.

HyFlex® 11-280

HyFlex® 11-281

The seamless design and width options make these HyFlex® sleeves the best choice for all-day comfort and additional protection when using Ansell gloves. INTERCEPT™ Cut Resistance Technology provides best-in-class cut protection and a soft and cool feel to the worker.

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® 11-738

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

AlphaTec® 58-735

INTERCEPT™ Cut Resistance Technology 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.

RINGERS® R-065

Breathable knit shell offers 360° cut resistance, while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. TPR impact protection on top of hand and full length of fingers adds protection against crush and pinch injuries without sacrificing dexterity.

RINGERS® R-068

Breathable knit shell offers 360° cut resistance, while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. TPR impact protection on top of hand and full length of fingers. Patented double dipped technology for a full nitrile in smooth finish for liquid resistance.

RINGERS® R-080

Internal liquid-proof barrier added to the breathable knit shell offers 360° cut and liquid resistance while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. High visibility TPR impact protection on top of hand and full length of fingers.

RINGERS® R-085

Breathable knit shell offers cut resistance, while the half-dipped nitrile coating on palm with a sandy finish offers enhanced grip. TPR impact protection on top of hand and full length of fingers with fleece lining for weather protection, and a thumb saddle patch to reinforce wear and tear zones. Includes index, middle, and thumb tips with touchscreen compatibility.

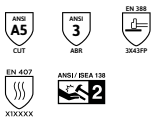
RINGERS® R-169

TPR impact protection on top of the hand and full length of fingers with synthetic leather palm for enhanced grip and additional palm layer for enhanced cut resistance. Added security and durability with secure cuff and wrap around index finger protecting wear and tear zone.

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.

RINGERS® R-179

Medium-duty impact gloves with F3 Technology™ and TPR padding on top of the hand and full length of fingers. Additional synthetic leather palm enhances grip performance and offers high-level of cut resistance.



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-667

Cut-resistant, medium-duty impact gloves that is fully lined with high-quality grain goatskin leather. Developed with F3 Technology™ and reinforced seams around the index finger and base of the thumb make for highly durable, dexterous personal protection.

RINGERS® R-299

Heavy duty glove with TPR impact protection on top of the hand and full length of fingers, with durable palm with contact heat resistance and additional palm layer for enhanced grip and cut resistance.

RINGERS® R-259B

Heavy duty impact glove with high visibility TPR impact protection on top of hand and full length of fingers. Durable synthetic leather palm for enhanced grip with additional palm layer for enhanced cut resistance. Waterproof barrier to keep hands dry with a liquid resistant coating on top of hand.

VIBRATION & REPETITIVE/ ERGONOMIC MOVEMENT PROTECTION

Vibration in the workplace is generally classified as hand–arm vibration, which is transmitted through the use of hand-held powered equipment like impact drills and air powered wrenches. Prolonged exposure can lead to damage to the hand and arm muscles (hand–arm vibration syndrome). The main concerns are therefore the magnitude of vibration transmitted and the duration of exposure.

In addition to muscle fatigue due to vibration, musculoskeletal injuries are often caused by repetitive movements, overexertion of the muscle, and improper positioning while working. Selecting the right PPE can help reduce the risks of damage to muscles, bones & joints.

RINGERS® R-161

Durable synthetic leather palm for enhanced grip with palm padding for extra comfort. Flexible knuckle TPR design with two detached fingers provides impact protection on top of hand and fingers.

RINGERS® R-167

Split fit padded palm for comfort with additional palm layer for enhanced cut resistance. Flexible knuckle TPR design with two detached fingers provides impact protection on top of hand and fingers.

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®

Performed by our safety experts, AnsellGUARDIAN® is a service that helps our customers to improve their safety, productivity, combining 45 years of safety assessment experience with a data-driven methodology, delivering unique personalized assessments.

WHAT WE DO

Safety & Compliance

We provide a personalized risk management solution that leads to improved worker safety, injury reduction and increased regulatory compliance.

Cost Performance

We advise on business performance improvements that result in lower overall costs for your company.

Productivity

We deliver best practice recommendations to optimize your PPE dispensing, improve your company's output and eliminate waste, leading to an increase in productivity.

HOW WE DO IT

Data Collection › Assessment › Validation Testing › Implementation › Training › Expansion

Result oriented

Our simple and clear processes focus on the most relevant areas to deliver our best practices recommendations for one single application or even an entire site.

Tailor-made

Every customer is different, and so are their safety needs. Our 600+ safety experts assess each situation individually, using the data provided and a proven process. This results in a unique, tailor-made assessment to meet your objectives.

Transformational

Our safety experts support the full implementation of our assessment with samples and education of your workers, to ensure the success of PPE change management.

Sustainable partnership

We start our partnership by analyzing, benchmarking, implementing and improving your PPE-related operations and performance. One assessment at a time, we assess your current and future safety needs.

AnsellGUARDIAN® Chemical

CHEMICAL PROTECTION. SIMPLIFIED.

AnsellGUARDIAN® Chemical simplifies the glove and suit selection for your unique set of chemicals.

WHAT WE DO

AnsellGUARDIAN® Chemical evaluates the resistance of glove and suit materials to your chemicals and delivers a personalised assessment with expected permeation breakthrough times and degradation ratings.

This assessment can either be carried out during a personal consultation with our AnsellGUARDIAN® safety expert, or online by using our chemical resistance database (ansellguardianpartner.com). As a result, selecting the right chemical glove and/or suit has never been easier.

HOW WE DO IT

We report permeation breakthrough times –BT1.0 and BT0.1 taken in minutes for the challenged chemical to permeate through the material at a rate of 1.0 µg/ cm2/min or 0.1 µg/ cm2/min as per EN374-3, EN 16523-1, ISO 6529 and ASTM F739. We also report degradation ratings for HP.

Our online solution is designed to simplify your selection of Ansell hand and body protection solutions. It offers an instant visual evaluation and an easy-to-use search functionality, including the unique Chemical Abstracts Service (CAS) number system on **ansellguardianpartner.com**.

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.

ANSELL HEALTHCARE PRODUCTS LLC
111 Wood Avenue South,
Suite 210
Iselin, NJ 08830, USA
T: +1-800-800-0444

ANSELL CANADA INC
105 Lauder
Cowansville, QC,
J2K 2K8 Canada
T: +1-800-363-8340

Neither this document nor any other statement made herein by or on behalf of Ansell should be construed as a warranty of merchantability or that any Ansell product is fit for a particular purpose. Ansell assumes no responsibility for the suitability or adequacy of an end user's selection of gloves for a specific application.

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 repellant" 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.

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