



# MINING

INDUSTRY SPECIFIC PROTECTION SOLUTIONS

**Ansell**



**COMFORT, PERFORMANCE  
& PROTECTION COMBINED**

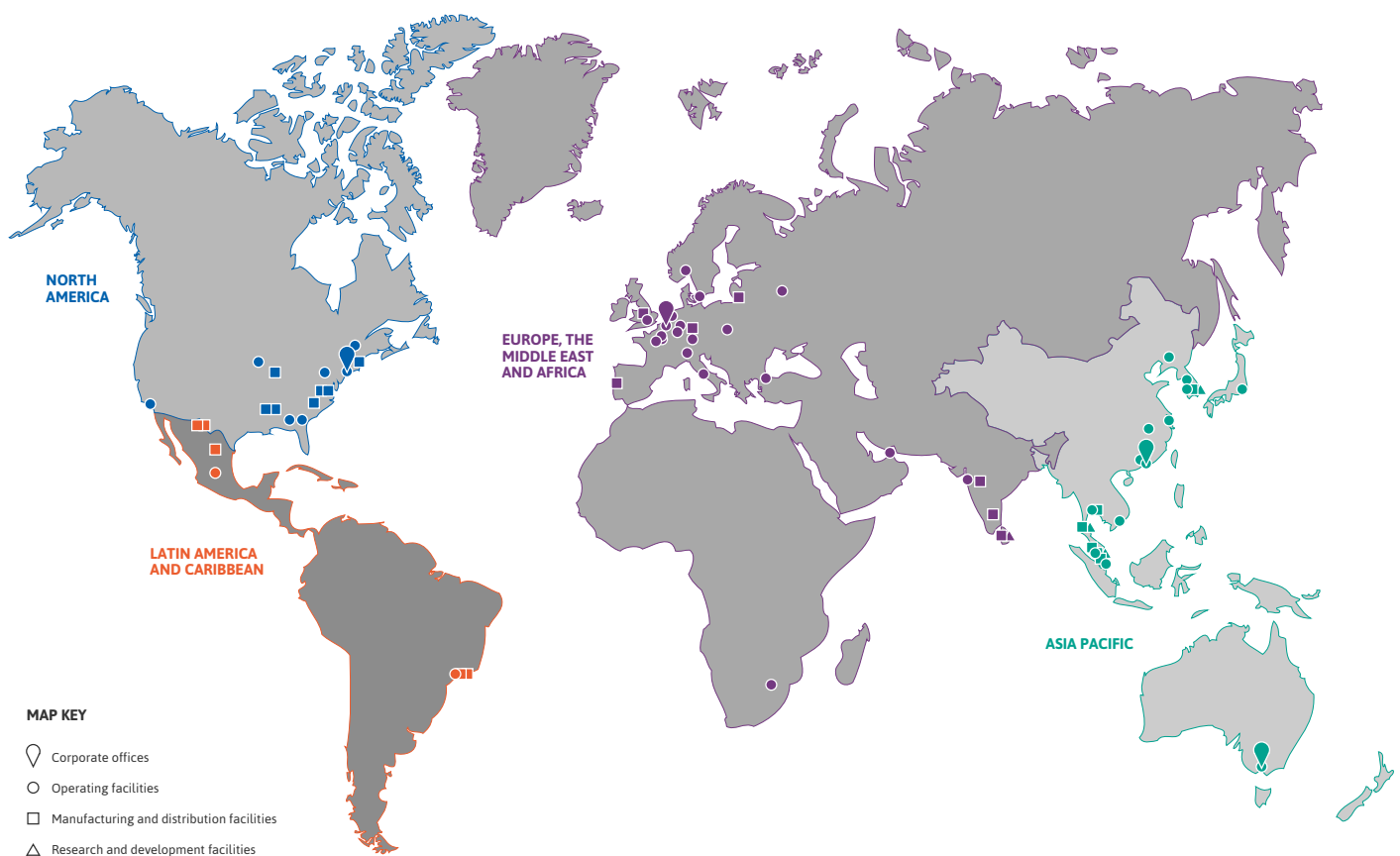




## KEEPING YOUR WORKFORCE SAFE

### GLOBAL SALES AND SUPPLY CHAIN INFRASTRUCTURE CREATES A SIGNIFICANT COMPETITIVE ADVANTAGE

- 14,000 EMPLOYEES
- 52 FACILITIES
- 120 EMPLOYEES DEDICATED TO RESEARCH & DEVELOPMENT



## DEDICATED TO SAFETY

PRODUCTS ENGINEERED BY ANSELL ARE TRUSTED TO DELIVER THE OPTIMUM BALANCE OF COMFORT, PERFORMANCE AND PROTECTION. FROM OUR ACTIVARMR TO HYFLEX BRANDS, WE PROVIDE CUSTOMERS WITH TAILORED SOLUTIONS TO IMPROVE WORKERS' SAFETY AND PRODUCTIVITY



# ANSELL AND THE MINING INDUSTRY

Workers on any mine site face demanding work environments every day and their hands are always closest to the danger. Workers need glove protection that doesn't slow them down: a grip that won't let go and flame resistance that won't tire. **Ansell's unique product line can help companies protect their workers while reducing costs related to worker injuries.**

OUR QUALITY STANDARDS EXCEED SOME OF THE STRICTEST INDUSTRY AND GOVERNMENT REQUIREMENTS DESCRIBED IN MOST MANUFACTURING AND SAFETY REGULATIONS.

The requirements and hazards associated with mining production and exploration call for hand protection solutions that allow for a combination of grip, all day comfort and durability. This combination will improve production efficiency and can lead to safety improvements on site. **As an expert at adapting new technologies to solutions that make our customers safer and more productive, Ansell is uniquely positioned to provide personal protective equipment (PPE) leadership in these industries.**

The mining industry is continually amazing the world with discoveries based on technological advancement and innovation, much as Ansell has consistently done in the world of hand safety. **For over 100 years Ansell has been recognized for continually innovating and leading the hand protection and protective clothing industry - delivering user-driven performance you won't see from anyone else.**



## MAXIMISING SAFETY & PERFORMANCE

### ANSELL GUARDIAN® IS A UNIQUE SUITE OF MANAGEMENT TOOLS HELPING BUSINESSES IMPROVE SAFETY AND PRODUCTIVITY WHILE REDUCING COSTS.

Our proprietary service has been awarded with patent protection by the United States Patent & Trademark Office. Ansell Guardian is an inherent component of our culture. It's how we interact with our customers.

#### METHODOLOGY

The overall Ansell Guardian® methodology is based on the Six Sigma process improvement concept and delivers best-practice recommendations with the most impact for a customer's business.

The Ansell Guardian strategy is a customer centric methodology that employs a consistent approach to each operational area addressed.

**Analyze:** Ansell/customer team discuss business objectives and understand safety requirements..

**Benchmark:** Understand needs and establish current performance baseline to later quantify process improvements.

**Improve:** Development of an implementation plan for business improvement.

**Measure:** Quantify the success of the program against baseline measurements and establish new performance benchmarks.

**Expansion:** Implementation of plan throughout your organization.

**Commitment:** We continue to monitor the success and performance of our recommendations and make adjustments as your business changes over time.

# Ansell GUARDIAN®



# A GLOBAL LEADER IN SAFETY & BUSINESS PERFORMANCE SOLUTIONS

- 30 YEARS OF EXPERIENCE IMPLEMENTING BUSINESS IMPROVEMENTS
- MORE THAN 8000 ANSELL GUARDIAN® ASSESSMENTS
- UNIQUE PORTFOLIO OF MULTI-DISCIPLINARY SERVICES
- FULL VERTICAL CAPABILITY
- GLOBAL FOOTPRINT

## SERVICES

The Ansell Guardian portfolio of services hosts 5 major areas, including Product Guardian, Safety Guardian, Business Guardian, Chemical Guardian and Vending Guardian. The overall Ansell Guardian methodology is based on the Six Sigma process improvement concept and delivers best-practice recommendations with the most impact for a customer's business.

	<p><b>Description:</b> Product optimisation solution identifying the most appropriate and comfortable hand and arm protection.</p> <p><b>Benefits:</b> Lower cost of ownership</p>
	<p><b>Description:</b> Safety solution that analyses job requirements and provides recommendations based on best practices and analytical risk assessment procedures.</p> <p><b>Benefits:</b> Employee safety</p>
	<p><b>Description:</b> Business performance improvement and implementation across 7 cost drivers that measure financial progress.</p> <p><b>Benefits:</b> Business performance</p>
	<p><b>Description:</b> Chemical risk management solution to support recommendations on chemical protection.</p> <p><b>Benefits:</b> Chemical compliance</p>
	<p><b>Description:</b> Best-in-class portfolio that maximizes profit from vending efficiencies improves worker compliance and offers better product performance.</p> <p><b>Benefits:</b> Lower total cost of ownership, increased safety, compliance and accessibility, improved productivity</p>

**For more information on Ansell Guardian go to:**  
[www.ansell.com/ansellguardian](http://www.ansell.com/ansellguardian)

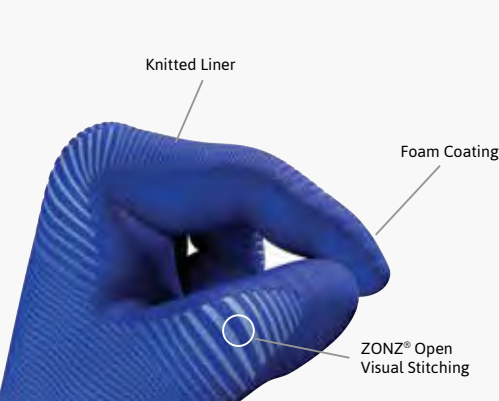


# WORKER EXPERIENCE INNOVATION BY ANSELL

OVER 100 YEARS OF EXPERIENCE IN PRODUCT INNOVATION THAT IMPROVE WORKER EXPERIENCE. **WORKER EXPERIENCE INNOVATION** BY ANSELL FOCUSES ON THREE BENEFIT-BASED INNOVATION PLATFORMS – **COMFORT, PERFORMANCE AND PROTECTION**.

## COMFORT TECHNOLOGIES

Ansell comfort technologies provide workers with an ultimately positive sensory wearing experience through glove fit.

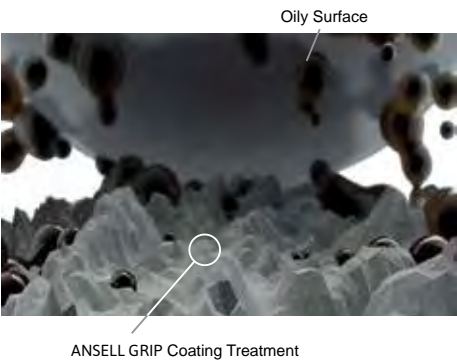


ZONZ™ is an innovative knitting technology that uses varying stitch designs around stress areas to tailor glove fit and enhance hand movement for higher dexterity and reduced fatigue.



## PERFORMANCE TECHNOLOGIES

Ansell performance technologies enable workers to execute tasks more efficiently and effectively and with greater speed, agility and quality.

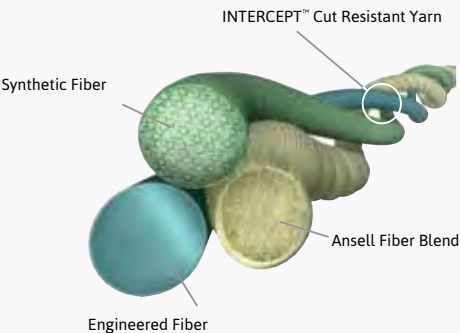


ANSELL GRIP TECHNOLOGY™ is a coating treatment that minimizes the force required to grip oily or wet tools or materials, reducing hand and arm fatigue and improving dexterity, safety and productivity.



## PROTECTION TECHNOLOGIES

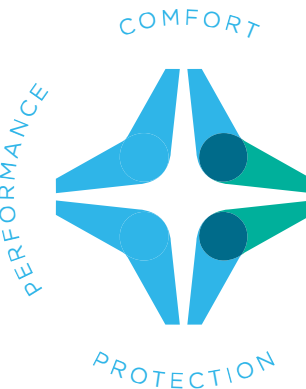
Ansell protection technologies shield workers from exposures, injuries or damage caused by their environment, industrial materials and equipment.



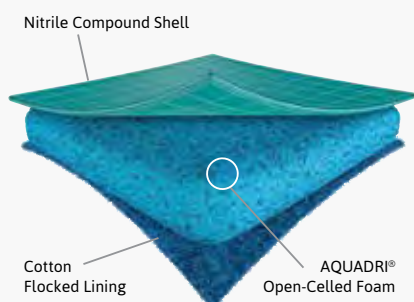
INTERCEPT™ technology blends engineered, synthetic and natural fibers into high-performance yarns that provide high cut protection along with great comfort and high dexterity.





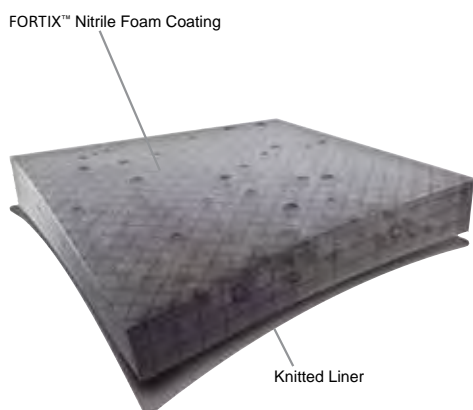


## Worker Experience Innovation



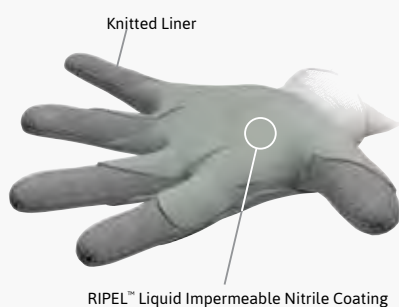
### **AQUADRI®** Moisture Management Technology

AQUADRI® is a patent pending technology that creates an open-celled layer of nitrile foam on the glove interior that absorbs hand perspiration and provides a cooler, drier and more comfortable fit.



### **FORTIX™** Abrasion Resistance Technology

This thin, strong and patent-pending breathable nitrile foam coating dramatically extends glove life and improves glove comfort in applications with abrasive handling exposure.



### **RIPEL™** Liquid Repellence Technology

RIPEL™ technology creates a liquid-impermeable layer in knit glove styles that prevents oil or lubricants from making even incidental contact with the wearer's skin, while also enhancing hand health.



# TARGET SEGMENTS: UNDERSTANDING USER NEEDS AND APPLICATIONS

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## INFRASTRUCTURE CONSTRUCTION

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### APPLICATIONS:

- Heavy machinery operation
- Equipment maintenance
- Pipe handling/installation
- Trench work
- Welding joints
- Signaling/positioning
- Site preparation/debris removal
- Grinding joints/burs
- Frame work/block
- Cementing

### USER NEEDS:

- Wet/dry grip
- Comfort
- Dexterity
- Cut resistance
- FR/ARC flash



## EXTRACTION AND EXPLORATION

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### APPLICATIONS:

- Machine operation
- Hv/Iv operations
- Drilling
- Blasting
- Hydraulic set and testing
- Load and haul

### USER NEEDS:

- Oil and wet grip
- Impact protection
- Vibration protection
- Comfort for all day wear in hot environments
- Durability
- Cut resistance
- High visibility



## PROCESSING

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### APPLICATIONS:

- Ore unloading into gyrator & crusher
- Crushing of ore
- Loading onto conveyer
- Conveyer apron inspection and Separation of product
- Primary grinding
- Inspection of primary product
- Concentration, mixing and palletisation
- Secondary grinding
- Use of binding agents
- Rotary kiln inspection
- Shipping – Pellet loadout
- Unloading of product

### USER NEEDS:

- Oil and wet grip
- Chemical resistance immersion
- Chemical resistance splash
- Comfort for all day wear in hot environments
- Durability
- Cut resistance
- High visibility





## SERVICE/MAINTENANCE

### APPLICATIONS:

- Heavy vehicle maintenance
- Light vehicle maintenance
- Hydraulic repair
- Hydraulic cleaning
- Welding of equipment
- Electrical repair and inspection
- Tyre fitment and cleaning
- Re-fuel oil, fluid and diesel
- Engine re-fit and build
- Washbay
- Conveyor maintenance
- Longwall maintenance

### USER NEEDS:

- Oil and wet grip
- Dexterity and tactility
- Chemical resistance splash
- Comfort for all day wear in hot environments
- Durability
- Cut resistance
- High visibility
- Electrical charge protection
- Limited heat protection



## MINES RESCUE & EMERGENCY RESPONSE

### APPLICATIONS:

- Fire Extinguishing
- Ventilation
- Working in dangerous gas areas
- Rescue and extraction from confined spaces
- Basic first aid

### USER NEEDS:

- Impact Protection
- FR and ARC
- High Cut
- Chemical protection

# GUIDE TO ANSELL PROTECTION SOLUTIONS FOR THE MINING INDUSTRY

## CHEMICAL PROTECTION

As the world leader in hand protection, no single material can resist all dangerous chemicals and exposures can happen through different ways - splash or immersion. Selecting the right chemical protection also requires understanding of the work environment and regulations governing these chemicals.

Brand	Category	Positioning	Attributes
<b>AlphaTec®</b>	Chemical, Mine Rescue & Emergency Response	The optimal balance of flexibility & technical performance. Advanced chemical protection for managed risk environments.	<ul style="list-style-type: none"><li>• Supported Ranges</li><li>• Unsupported Ranges</li><li>• Multi-Duty Selection</li><li>• Wet/Dry Selection</li><li>• Moisture Management</li></ul>
<b>MICROFLEX®</b>	Single Use	Purpose built to outperform the competition by providing superior protection, pushing the boundaries of disposable glove performance and enhanced productivity.	<ul style="list-style-type: none"><li>• Wide Polymer Selection</li><li>• Diverse Style Variants</li><li>• Multi-Weight</li><li>• Colour Choices</li></ul>
<b>TouchNTuff®</b>	Single Use	The optimal balance of sensitivity & resilience. Advanced product and worker protection for managed risk environments.	<ul style="list-style-type: none"><li>• Wide Polymer Selection</li><li>• Diverse Style Variants</li><li>• Multi-Weight</li><li>• Colour Choices</li></ul>





## MECHANICAL PROTECTION

Workers in the mining industry need mechanical protection from cuts, abrasion and punctures in daily operations. Ansell offers a comprehensive range of mechanical gloves, impact and fire protection to cover all worker needs across the Mining industry.

Brand	Category	Positioning	Attributes
<b>HyFlex®</b>	Mechanical	The optimal balance of flexibility & performance. Advanced mechanical protection for managed risk environments.	<ul style="list-style-type: none"><li>• Abrasion Resistant</li><li>• Oil Repellent</li><li>• Cut Resistant</li><li>• Multipurpose</li><li>• Multi-Duty</li><li>• Ultralight</li></ul>
<b>ACTIVARMR®</b>	Special Purpose	Engineered to keep you active. Specialized armored protection for unpredictable risk environments.	<ul style="list-style-type: none"><li>• Impact Resistant</li><li>• Vibration Resistant</li><li>• Flame Resistant</li><li>• All-Conditions Visibility</li><li>• All-Conditions Thermal</li></ul>

## BODY PROTECTION

Selecting the right body protection requires understanding of the work environment and regulations governing these chemicals. Ansell offers a comprehensive range of Chemical clothing to cover all worker needs across the Mining industry.

Brand	Category	Positioning	Attributes
<b>TRELLCHEM®</b>	Clothing	Trellchem® suits are designed to give excellent durability for extended use in chemical response missions, with each suit providing protection against a variety of chemicals.	<ul style="list-style-type: none"><li>• Reusable</li><li>• High chemical resistance</li><li>• Abrasion resistant</li><li>• Flame resistant</li><li>• Anti-static</li><li>• Protection against to radioactive particles</li></ul>

# PRODUCT PORTFOLIO

The following pages cover key applications within mining environments. The products below are designed for a broad range of mechanical protection, chemical handling and general purpose tasks and represent the best in the Ansell range. For applications outside this matrix please contact an Ansell representative.

## INFRASTRUCTURE

RECOMMENDED GLOVE FOR APPLICATION

CUT	MULTI-PURPOSE	OIL REPELLENT	SPECIAL PURPOSE	CHEMICAL
				
HyFlex® 11-735 Medium duty/ Cut protection	HyFlex® 11-840 Light duty/ Abrasion protection/Dry grip	HyFlex® 11-926 Light duty/ Repellent/Grip	VibraGuard® 07-111 Vibration/Grip	AlphaTec® 58-270 Chemical/ Enhanced grip
				
ActivArm® 97-013 Medium duty/ High visibility	ActivArm® 97-012 General purpose/ High visibility	HyFlex® 11-927 Medium duty/ Repellent/Grip	VibraGuard® 07-112 Vibration/Grip	AlphaTec® 58-435 Chemical/ Enhanced grip



## EXTRACTION/EXPLORATION

RECOMMENDED GLOVE FOR APPLICATION

CUT	MULTI-PURPOSE	OIL REPELLENT	SPECIAL PURPOSE		CHEMICAL	
						
ActivArm® 97-013 Medium duty/ High visibility	HyFlex® 11-840 Light duty/Abrasion protection/Dry grip	HyFlex® 11-926 Light duty/ Repellent/Grip	ActivArm® 97-120 Grip/Barrier/ Impact cut protection	VibraGuard® 07-111 Vibration/Grip	AlphaTec® 58-270 Chemical/ Enhanced grip	TouchNTuff® 93-250 Grip/Flexibility/ Single-use glove
						
	ActivArm® 97-012 General purpose/ High visibility	HyFlex® 11-927 Medium duty/ Repellent/Grip	RIGS Medium duty		AlphaTec® 58-435 Chemical/ Enhanced grip	



## SERVICE & MAINTENANCE

RECOMMENDED GLOVE FOR APPLICATION

CUT	MULTI-PURPOSE	OIL REPELLENT	SPECIAL PURPOSE	CHEMICAL		
						
ActivArm® 97-013 Medium duty/ High visibility	HyFlex® 11-735 Medium duty/ Cut protection	HyFlex® 11-840 Light duty/ Abrasion protection/ Dry grip	HyFlex® 11-926 Light duty/ Repellent/Grip	ActivArm® 97-120 Grip/Barrier/ Impact cut protection	AlphaTec® 58-270 Chemical/ Enhanced grip	TouchNTuff® 93-250 Grip/Flexibility/ Single-use glove





## PROCESSING

RECOMMENDED GLOVE FOR APPLICATION



CUT	MULTI-PURPOSE	OIL REPELLENT	SPECIAL PURPOSE		CHEMICAL	
						
HyFlex® 11-735 Medium duty/ Cut protection	HyFlex® 11-840 Light duty/ Abrasion protection/ Dry grip	HyFlex® 11-926 Light duty/ Repellent/Grip	ActivArm® 97-120 Grip/Barrier/ Impact cut protection	VibraGuard® 07-111 Vibration/Grip	AlphaTec® 58-270 Chemical/ Enhanced grip	TouchNTuff® 93-250 Grip/Flexibility/ Single-use glove
						
ActivArm® 97-013 Medium duty/ High visibility	ActivArm® 97-012 General purpose/ High visibility	HyFlex® 11-927 Medium duty/ Repellent/Grip	RIGS Medium duty		AlphaTec® 58-435 Chemical/ Enhanced grip	

## MINES RESCUE AND EMERGENCY RESPONSE

RECOMMENDED GLOVE FOR APPLICATION



CUT	MULTI-PURPOSE	OIL REPELLENT	SPECIAL PURPOSE	CHEMICAL	
					
PowerFlex® 80-813 Flame Resistant / Arc Flash Protection	HyFlex® 11-840 Light duty/Abrasion protection/Dry grip	HyFlex® 11-926 Light duty/ Repellent/Grip	ActivArm® 97-120 Grip/Barrier/Impact cut protection	AlphaTec® 58-270- EMEA Chemical/ Enhanced grip	TouchNTuff® 93-250 Grip/Flexibility/ Single-use glove
					
	ActivArm® 97-012 General pur- pose/High visibility	HyFlex® 11-927 Medium duty/ Repellent/Grip		AlphaTec® 58-435 Chemical/ Enhanced grip	



Trellchem®  
Splash 600

# OUR LATEST INNOVATIONS

## HyFlex® 11-926

Light Duty Oil Repellent, Oil Grip  
Mechanical Protection Glove

The new Ansell HyFlex 11-926 glove combines greater comfort and efficiency with oil repellence to provide hand protection while helping the user to retain grip on small, oil coated parts and assembly components. This comfortable, light duty oil repellent, multi-purpose glove employs Ansell's Ripel liquid repellence technology and Grip technology to protect the worker's hands against knuckle abrasion and oil exposure.



### Technology

**ANSELL GRIP**  
Ansell Grip Technology™

**RIPEL™**  
Liquid Repellence Technology

### Key Features

**Oil Impermeable Barrier**  
Repellence from drilling fluids and oils to keep hands clean and improve comfort.

**All-Day Comfort**  
Fine gauge plaited yarn, natural rubber free elasticised wrist inside prevents skin irritaitons.

### Safety Ratings



**Enhanced Oil Grip**  
Mitigates hand fatigue and injury by addressing the #1 worker frustration and enhancing efficiency and safety.

## ActivArmr® 97-120

### Extreme Oil and Impact Protection for Mining Workers

The ActivArmr 97-120 glove addresses workers' top frustrations in the rugged mining environment by delivering the best of both safety and comfort. Outstanding mud-oil grip plus cut and impact resistance protects hands in extreme conditions, reducing fatigue and increasing productivity. Specialised oil impermeable technology keeps hands clean and dry – for all-day comfort that helps get the job done.



#### Technology



#### Key Features



##### Feature Icons

Integrated glove feature icons allow for quick identification.

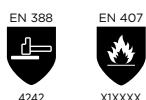
##### High visibility

Bright orange-coloured exterior and reflective logo increase awareness of hand location in low light conditions to keep workers safe and seen.

**Oil Impermeable Barrier**  
Repellence from drilling fluids and oils to keep hands clean and improve comfort.



#### Safety Ratings



##### Enhanced Oil Grip

Mitigates hand fatigue and injury by addressing the #1 worker frustration and enhancing efficiency and safety.

##### Impact Protection

Impact bumpers protect entire back of hand from medium-level impact injury to prevent loss of time.





# MINING PROTECTED SOLUTIONS

## HyFlex® 11-840

## LIGHT DUTY/ABRASION PROTECTION/DRY GRIP



- › FORTIX™ nitrile foam coating provides enhanced dry grip and abrasion performance
- › High abrasion resistance – three times the abrasion performance of other light-weight knit-dipped gloves
- › Form-fitting liner matches the natural contours of the hand to create a more comfortable wearing experience
- › Silicone-free for product protection

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/  
Manual handling/Processing with low cut/  
Extraction and exploration low cut  
and impact/  
General vehicle and equipment  
maintenance

## HyFlex® 11-818

## LIGHT DUTY/ABRASION PROTECTION/DRY GRIP



- › The FORTIX™ coating provides enhanced dry grip and is 20% more breathable than earlier formulations, for cooler, drier hands and less sweat
- › The seamless 18-gauge nylon-spandex liner has a barehand feel, offering breathability, comfort and enhanced fingertip sensitivity for precision tasks
- › Ansell ZONZ™ Comfort Fit technology matches natural hand contours for improved support, breathability and range of movement
- › With EN Abrasion Level 4, the ultra-lightweight HyFlex® 11-818 offers ideal protection for a range of general handling and assembly tasks

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/  
Manual handling/  
Processing with low cut/  
Extraction and exploration low cut  
and impact/  
General vehicle and equipment  
maintenance

## HyFlex® 11-801

## EXCELLENT DEXTERITY AND BREATHABILITY/LONG DURABILITY



- › Ansell's HyFlex® 11-801 gloves are ideal for dry or slightly oily applications that require light mechanical protection and high levels of handling finesse
- › They are well-suited to light assembly applications as well as to the needs of logistics and warehousing
- › The use of Spandex elastics prevents risk of latex allergy, while the silicone-free glove reduces potential contamination of the products

### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/  
Manual handling/  
Processing with low cut/  
Extraction and exploration low cut  
and impact/  
General vehicle and equipment  
maintenance

## HyFlex® 11-618

## LIGHT DUTY/MULTIPURPOSE



- › Lightest lined and coated glove for outstanding comfort and sensitivity
- › Enhanced flexibility, tactility and handling efficiency
- › Ideal for workers who need a high level of touch and precision
- › Thin polyurethane coating enables high tactility and provides abrasion resistance to extend glove life

### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/Manual handling/Processing with low cut/Extraction and exploration low cut and impact/General vehicle and equipment maintenance

## ActivArmr® 97-012

## GENERAL PURPOSE/HIGH VISIBILITY



- › High visibility on the back of the hand and palm side to increase safety over traditional high visibility liner gloves
- › 15 gauge liner offers excellent comfortable all-day wear, not sweaty, compared to leather
- › Provides excellent dexterity and allows ability to pick up small items
- › Provides excellent wet and dry grip
- › Silicone-free

### Performance Ratings



Sizes: 7-11

### Applications:

Infrastructure Construction/Manual handling/Processing with low cut/Extraction and exploration low cut and impact/General vehicle and equipment maintenance

## HyFlex® 11-920

## LIGHT DUTY/REPELLENT/OIL GRIP



- › Ansell Grip Technology™ actively repels oils and other lubricants away from the gripping surface via microscopic channels in the coating
- › Increases surface contact for enhanced grip and control
- › Prevents oil penetration and reduces the risk of dermatitis and liquid exposure
- › Multi-layer dipping process provides high abrasion resistance and increases wear life

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/Manual handling/Processing with low cut/Extraction and exploration low cut and impact/General vehicle and equipment maintenance

# MINING PROTECTED SOLUTIONS

## HyFlex® 11-926

## LIGHT DUTY/REPELLENT/GRIP

NEW



- › Oil impermeable barrier provides repellence from fluids and oils to keep hands clean and improve comfort
- › Ansell Grip Technology™ actively repels oils and other lubricants away from the gripping surface via microscopic channels in the coating
- › Fine-gauge plaited yarn provides all-day comfort, natural rubber-free elasticised wrist inside prevents skin irritations

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/  
Manual handling/ Extraction and  
exploration low cut/ General vehicle  
and equipment maintenance

## HyFlex® 11-927

## MEDIUM DUTY/REPELLENT/GRIP



- › Oil impermeable Barrier repellency from drilling fluids and oils to keep hands clean and improve comfort.
- › Ansell Grip Technology™ actively repels oils and other lubricants away from the gripping surface via microscopic channels in the coating
- › Intercept Technology® provides superior whole-hand laceration protection from abrasive and sharp metals
- › Long-lasting design combines the abrasion resistance of multiple layer coatings, ensuring that the soft, strong HPPE liner performs at the cut resistance level as long as needed

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/  
Manual handling/  
Processing with low cut/  
Extraction and exploration low cut/  
General vehicle and equipment  
maintenance

## ActivArm® 97-013

## MEDIUM DUTY/HIGH VISIBILITY



- › Retro-reflective logo & high visibility liner increases worker safety in low-visibility and dark conditions
- › Intercept Technology® liner provides enhanced cut and abrasion protection
- › Tactility/Dexterity to complete intricate tasks more efficiently
- › Excellent wet and dry grip to prevent injury from slippage
- › Superior all-day comfort reduces hand fatigue
- › Fabric more breathable than leather, keeping hands dry and comfortable
- › Silicone-free

### Technology



### Performance Ratings



Sizes: 7-11

### Applications:

Infrastructure Construction/  
Manual handling/  
Processing with low cut/  
Extraction and exploration impact/  
General vehicle and equipment  
maintenance



## HyFlex® 11-518

## LIGHT DUTY/CUT PROTECTION



- › Light duty 18 gauge liner provides barehand-like dexterity
- › EN level 3 cut protection
- › Soft, sheer Dyneema® Diamond Technology fiber for ultimate comfort
- › EN level 3 abrasion protection
- › Thin, tough coating for high tactility and long glove life
- › D3 pinky tailored to match natural hand contours

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/  
Manual handling/  
Processing with low cut/  
Extraction and exploration low cut/  
General vehicle and equipment maintenance

## HyFlex® 11-724

## MEDIUM DUTY/PALM DIPPED/CUT RESISTANT



- › Soft nylon/lycra blend liner for added comfort
- › Light oil grip for more secure handling
- › Dirt masking palm for longer wear times
- › Silicone free PU coating protects key processes

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure Construction/  
Manual handling/  
Processing with low cut/  
Extraction and exploration low cut/  
General vehicle and equipment maintenance

## HyFlex® 11-735

## MEDIUM DUTY/PALM DIPPED/CUT RESISTANT



- › Soft plaited liner for added comfort and all shift wear
- › Silicone free PU coating for key processes
- › High cut for handling sharp equipment including extraction equipment
- › Light in colour and feel for warm working conditions underground and on surface
- › PU coating gives improved dexterity for improved touch and feel in harsh working environments

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Infrastructure construction/  
manual handling/  
processing with high cut risk profiles

# MINING PROTECTED SOLUTIONS

## Vantage® 70-765

## CUT PROTECTION



- › With reinforced thumb and seams relocated to the backs of the fingers, reducing exposure to cuts and offering greater protection and longer life. This design helps guard against minor injuries and punctures, as well as offering superior grip even in oily environments thanks to use of premium leather in the palm. The 70-766 version has a longer cuff for additional protection.
- › Plaited inside for comfort with coloured polyester/cotton.
- › Palm reinforced with premium leather.

### Technology



### Kevlar

### Performance Ratings



Sizes: 8-11

### Applications:

Infrastructure Construction/  
Manual handling/  
Processing with high cut/  
Extraction and exploration low cut/  
General vehicle and equipment  
maintenance

## PowerFlex® 80-813

## FLAME RESISTANT/ARC FLASH PROTECTION



- › Flame resistant so the glove will not melt, drip, shrink or propagate a flame if exposed to a flash fire
- › Provides Hazard/Risk Category (HRC) Level 2
- › Arc Flash protection (ATPV) 12 cal/cm<sup>2</sup>
- › Designed with a unique yarn engineered with DuPont™ Kevlar® fiber

### Technology



### Kevlar

### Performance Ratings



Sizes: 6-11

### Applications:

Electrical maintenance/  
Blasting handling explosives/  
Vehicle maintenance and equipment  
maintenance

## ActivArm® 97-120

## GRIP/BARRIER/IMPACT/CUT PROTECTION

NEW



- › Oil impermeable barrier repellence from drilling fluids and oils to keep hands clean and improve comfort
- › Ansell Grip Technology™ actively repels oils and other lubricants away from the gripping surface via microscopic channels in the coating
- › Intercept Technology® provides superior whole-hand laceration protection from abrasive and sharp metals
- › Impact bumpers protect entire back of hand from medium-level impact injury to prevent loss of time

### Technology

**ANSELL GRIP**  
Ansell Grip Technology

**INTERCEPT™**  
Cut Resistance Technology

**RIPEL™**  
Liquid Repellence Technology



### Performance Ratings



Sizes: 8-12

### Applications:

Drilling/Blasting/  
Heavy tool handling and tyre fitting

## ActivArm® 97-200

## FLAME RESISTANCE / IMPACT RESISTANCE / GRIP



- › First-to-market flame resistant bumper formulation offers impact protection to prevent back-of-hand injuries
- › Palm padding for hard impact
- › Superior wet/dry grip to prevent injury from slippage
- › Durable Dupont™ Kevlar® stitching
- › Arc Flash – NFPA 70E - Test Method/Standard: ASTM F1959-05 - Result: Hazard/Risk Category (HRC) 4 - Arc Rating (ATPV) 51 cal/cm²

### Technology



### Performance Ratings



Sizes: 9-11

### Applications:

Drilling/Blasting/  
Heavy tool handling and tyre fitting



# MINING PROTECTED SOLUTIONS

## Electrician Gloves

## INDUSTRIAL RUBBER INSULATING



- › 100% natural rubber electrical insulating gloves
- › Available in yellow and black and in a choice of classes and lengths
- › Manufactured using proprietary natural rubber process in our ISO 9001 and ISO 14001 world class manufacturing facility

### Performance Ratings



**EN 60903: 2003**  
Category: A/Z/C

Sizes: 8-11

### Applications:

All electrical equipment handling inc  
Heavy vehicle generators

## VibraGuard® 07-111

## VIBRATION/GRIP



- › No need to remove the glove to screw or handle very small parts like nails.
- › Pressing the trigger of power tools is a lot easier with this half-finger version.
- › Gelfôm technology reduces vibration while nitrile coating provides snag, puncture and abrasion resistance
- › Silicone-free and launderable

### Performance Ratings



**EN 388**  
3221

Sizes: 8-10

### Applications:

Extraction and Exploration

## VibraGuard® 07-112

## VIBRATION/GRIP



- › A cost-effective means of minimizing Hand-Arm Vibration Syndrome (HAVS)
- › Gelfôm technology reduces vibration while nitrile coating provides snag, puncture and abrasion resistance
- › Matches the contours of the hand, enhancing flexibility and reducing hand fatigue
- › Silicone-free and launderable
- › Vibration attenuation EN10819:  
TRM (Transmission Ratio Medium frequency range) = 0.90  
TRH (Transmission Ratio High frequency range) = 0.52

### Performance Ratings



**EN 388**  
3221

Sizes: 8-11

### Applications:

Infrastructure and extraction

## AlphaTec® 58-535

## OPTIMUM GRIP/ENHANCED CHEMICAL RESISTANCE

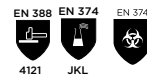


- › Revolutionary Ansell Grip Technology™ allows for improved handling of wet or oily objects with less grip force and more control
- › Unique combination of liquid-proof chemical resistance and grip
- › Flexibility and dexterity
- › Consistent polymer coating for reduction of the likelihood of chemical leakage onto the skin

### Technology



### Performance Ratings



Sizes: 7-11

### Applications:

Maintenance/Processing/Chemical and fluid handling surface/Underground and processing plants

## AlphaTec® 58-270

## MEDIUM DUTY/ CUT PROTECTION/LIGHT OIL GRIP

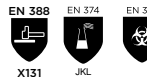


- › AlphaTec® 58-270 benefits from the industry-leading grip with an enhanced dexterity and comfort
- › The thin, double-wall nitrile shell and 15-gauge seamless nylon liner offer users excellent tactility and flexibility
- › Wherever chemicals, oil and grease are present, AlphaTec® gloves provide the best grip due to Ansell Grip Technology™

### Technology



### Performance Ratings



Sizes: 6-11

### Applications:

Maintenance/Processing/Chemical and fluid handling surface/Underground and processing plants

## AlphaTec® 58-330/58-335

## HIGH COMFORT AND PERFORMANCE/CHEMICAL PROTECTION



- › Chemical gloves with AlphaTec® AquaDri® two-layer construction keeps hands dryer for longer and greater comfort and performance
- › Moisture Management Technology: AquaDri® technology with an inner soft foam coating offers unrivaled moisture absorption: up to 10 times more than traditional cotton-flocked linings on average
- › Greater comfort and performance
- › Superior nitrile film and high-performance nitrile compound for advanced chemical protection and superior snag, puncture and abrasion protection compared to rubber or neoprene
- › Improved dry and wet grip

### Technology



### Performance Ratings



Sizes: 7-11

### Applications:

Handling chemicals and fluids in maintenance and processing

# MINING PROTECTED SOLUTIONS

## AlphaTec® 58-430/58-435

## CHEMICAL/ENHANCED GRIP



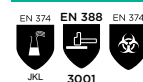
- › Ansell Grip Technology™ actively repels oils and other lubricants away from the gripping surface via microscopic channels in the coating
- › Nitrile compound coating offers superior snag, puncture and abrasion protection for long-term wear
- › Snug, provides comfort, tactility and improved dexterity
- › A foldable gutter cuff helps to prevent dripping onto the forearm
- › The cotton-flocked lining helps manage perspiration

### Technology

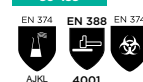


### Performance Ratings

58-430



58-435



Sizes: 7-11

### Applications:

Handling chemicals and fluids in maintenance and processing

## TouchNTuff® 93-250

## GOOD GRIP AND FLEXIBILITY/SINGLE-USE GLOVE



- › Ansell Grip Technology™ offers needed grip for wet or dry objects
- › Offers 3 times more puncture resistance than latex or PVC disposable gloves
- › Proprietary nitrile formulation provides comfort for long wear periods

### Performance Ratings



Sizes: 6.5 - 11

### Applications:

Service and Maintenance / Product testing

## Microflex® 93-856

## CHEMICAL & LIQUID PROTECTION / MULTI-PURPOSE



- › Bright orange colour for increased safety conditions for a variety of work environments.
- › Resists a variety of industrial chemicals for longer periods than other nitrile disposable gloves.
- › Extended cuff offers an increased level of protection
- › Textured fingers ensure a strong grip and maximum worker protection.
- › Powder-free and not made with natural rubber latex, to help protect from Type 1 skin allergies, skin irritation and dryness.

### Performance Ratings



Sizes: S, M, L, XL

### Applications:

Service and Maintenance / Product testing



## NOTES

# BODY PROTECTION – TRELLCHEM®

## ActivArmr® 97-609 / 97-610

## COOLING VEST



- › Can be worn underneath chemical protective clothing, turnout gear, coveralls, diving suits or daily workwear
- › The cooling effect is obtained from the vest's 21-phase change elements (PCM) which start absorbing heat at a temperature of 28°C (82°F). Heat absorption from the body or from an external source continues up to 4 hours until the elements have melted
- › The vest is designed to have a close fit. The PCM elements are integrated into the lining, providing great comfort and maintaining the wearer's flexibility when moving
- › 97-609 ACTIVARMR® Standard Cooling Vest  
97-610 ACTIVARMR® Flame Retardant Cooling Vest

### Duration:

Up to 4 hours: approximately 1.5 hours in a 140°F (60°C) environment, or 4 hours in a 113°F (45°C) environment.

### Recharge:

The elements can be recharged in 4 hours at room temperature (68°F/20°C) without external energy.

### Elements:

The PCM elements consist of a non-toxic, non-flammable blend of salts. The elements can be repeatedly used and recharged without removing them from the vest.

### Sizes:

Small/Medium – 4XLarge/5X-Large

## Trellchem® Splash 2000P

## SPLASH PROTECTIVE CHEMICAL SUITS (NON GASTIGHT SUITS)



Encapsulating splash protective suit for use where a gastight suit is not required, yet still good protection is needed. Combines respiratory protection with chemical splash protection.

- › Full-body splash protection
- › Soft & flexible
- › Good against alkalis and acids
- › Encapsulating design with a Scott Proflow PAPR fan worn inside. No mask used but instead a freeflow air system
- › For use with 2 pcs ABEKP3 filters.
- › Up to 4 hours work duration
- › 1-piece lightweight design
- › 1mm flexible PVC visor
- › Rear-entry watertight zipper
- › EN 14605 type 3/liquid tight

## Trellchem® Splash 900

## SPLASH PROTECTIVE CHEMICAL SUITS (NON GASTIGHT SUITS)



Full-body splash protection for use by both emergency back-up teams and in industry, where a gastight suit is not required yet still good protection is needed.

- › Non-encapsulating splash protection
- › Soft & flexible
- › Good against alkalis and acids
- › Approved for work in explosive atmospheres
- › Low profile design with BA worn outside
- › Anatomically designed face-seal
- › Reinforced knees/elbows
- › Watertight zipper (rear-entry)
- › EN 14605 type 3/liquid tight

## Trellchem® Splash 600

## SPLASH PROTECTIVE CHEMICAL SUITS (NON GASTIGHT SUITS)



Basic overall that provides protection against chemical splashes in low-risk environments. The many optional design features and material choices makes it possible to adopt it to the customers' needs.

- › Basic overall with hood for low-risk environments
- › EN 14605 type 4/spray tight
- › An every day workwear
- › Many optional features
- › Good against alkalis and acids
- › Optional materials

## Trellchem® Super Freeflow

## DAILY USE CHEMICAL PROTECTION



Trellchem®  
Super Freeflow

Trellchem®  
Light Freeflow

Combined respiratory protection and high level, gastight chemical protection. Designed for use with external airline, without the use of an SCBA, and is therefore specially aimed at industrial use.

- › EN943-1
- › For use with airline passthrough with air pressure of 3 to 8 bars
- › Minimum airflow 220 l/min ; Maximum airflow 475 l/min
- › Warning whistle sounds below air pressure of 3 bar
- › Offers better comfort due to the slim design and no need for a mask
- › Possible to work longer time
- › Approved for work in explosive atmospheres
- › High level of chemical resistance against acids, alkalies, solvents, petroleum products and aromatics

Optionally the suit can be made in PVC material - Trelchem Light Freeflow - which offers good protection against alkalies & acids in low risk environments.

## Trellchem® Freeflow Hood Light

## DAILY USE CHEMICAL PROTECTION



Combined respiratory and partial body splash protection. The Trelchem® Light material provides good protection against acids and alkaline chemicals. Typically to be used in combination with a splash protective suit.

- › Excellent fit - evaluated by users
- › Wide vision visor
- › Low level chemical protection
- › For use in low risk environments
- › EN 14605 type PB [3] (partial body)
- › Respiratory protection EN 14594 class 4
- › For use with airline at air pressure of 5 bar to 8 bar
- › Warning whistle below air pressure of 5 bar
- › Minimum airflow: 350 l/min



# ANSELL VENDING PARTNERSHIP PROGRAM

## OUR UNIQUE VEND-READY PACKAGING!

Over 18 branded styles available including HyFlex®, AlphaTec® and TouchNTuff®

Shrink-wrapped folded gloves ensure a tight package for consistent vending



Successfully placed in over 50,000 vending machines worldwide

Compatible with most leading vending machines including helix and carousel

Patent-pending folding technique assures consistent dispensing of product

No more guessing what style and size you're selecting from the machine



## SAFETY AND CONVENIENCE THAT GO HAND IN HAND.

### A VENDING CONCEPT THAT BENEFITS YOUR BUSINESS

- Saves on labour costs by eliminating repackaging
- Consistent length, width and thickness measurements reduce refill time
- Proven dispensing of product reduces downtime of vending machines
- Sell sheets with detailed specifications

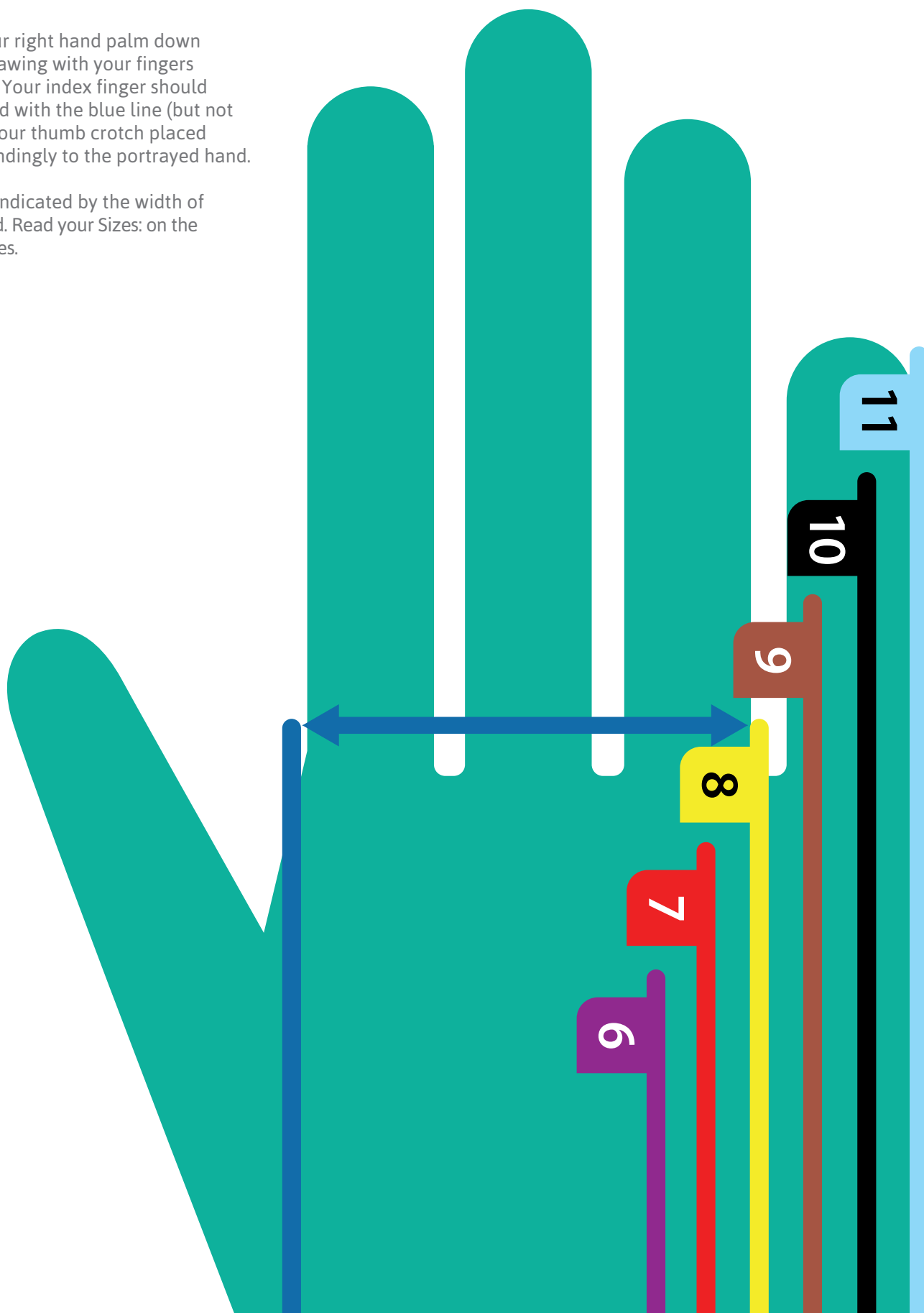
### GLOBAL SUPPORT

- All global distributor locations and factories can source the same products
- Sales support throughout North America, Latin America, APAC and EMEA
- Providing JIT delivery with inventory in global strategic locations throughout North America, Europe and Asia
- Fully integrated into our US patented Ansell Guardian® methodology, includes sales data, rationalization analysis and product placement optimization
- Guides for glove training, selection and chemical compatibility

## HAND SIZES: CHART

Place your right hand palm down on the drawing with your fingers together. Your index finger should be aligned with the blue line (but not over it), your thumb crotch placed correspondingly to the portrayed hand.

Sizes: as indicated by the width of your hand. Read your Sizes: on the colour lines.



# Ansell Protects™

For more information or assistance, contact Ansell at: [protectionau@ansell.com](mailto:protectionau@ansell.com)  
or visit [ppe.ansell.com.au](http://ppe.ansell.com.au)

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## **Australia**

Ansell  
Level 3, 678 Victoria Street  
Richmond, Vic. 3121  
Australia  
Tel. + 61 1800 337 041

## **Canada**

Ansell  
105 Lauder  
Cowansville, QC J2K 2K8  
Tel. 1-800-363-8340  
Fax. 1-888-267-3551

## **Central America**

Ansell  
Bvld. Bernardo Quintana No. 7001-C,  
Q7001 Torre II. Locales 1304, 1305 y 1306.  
Col. Centro Sur, C.P. 76079  
Querétaro, Qro. México  
Tel. +52 (442) 248 1544 / 248 3133  
Fax. +52 (442) 213 0049

## **Europe, Middle East, Africa & India**

Ansell  
Riverside Business Park  
Blvd International, 55  
1070 Brussels, Belgium  
Tel. + 32 2 528 74 00  
Fax. + 32 2 528 74 01

## **Hong Kong**

Ansell  
Unit 3102-3103, 31/F  
Manhattan Place 23 Wang Tai Road  
Kowloon Bay, Hong Kong  
Tel. + 852 2185 0600  
Fax + 852 2856 2155

## **Latin America**

Ansell  
Rua das Figueiras, 474 - 4º Andar  
Bairro Jardim  
SP 09080-300 Santo André  
Brazil  
CNP: 03.496.778 / 0001-21  
Tel. + 55 11 3356 3100

## **Russia**

Ansell  
123610 Россия, Москва  
Краснопресненская  
Наб. 12, п.3, оф. 1304А  
Тел. +7 495 258 13 16

## **United States**

Ansell  
111 Wood Avenue South  
Suite 210  
Iselin, NJ 08830, USA  
Tel. + 1 800 800 0444  
Fax. + 1 800 800 0445

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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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