



METALWORKING

HAND SAFETY REFERENCE GUIDE

Ansell

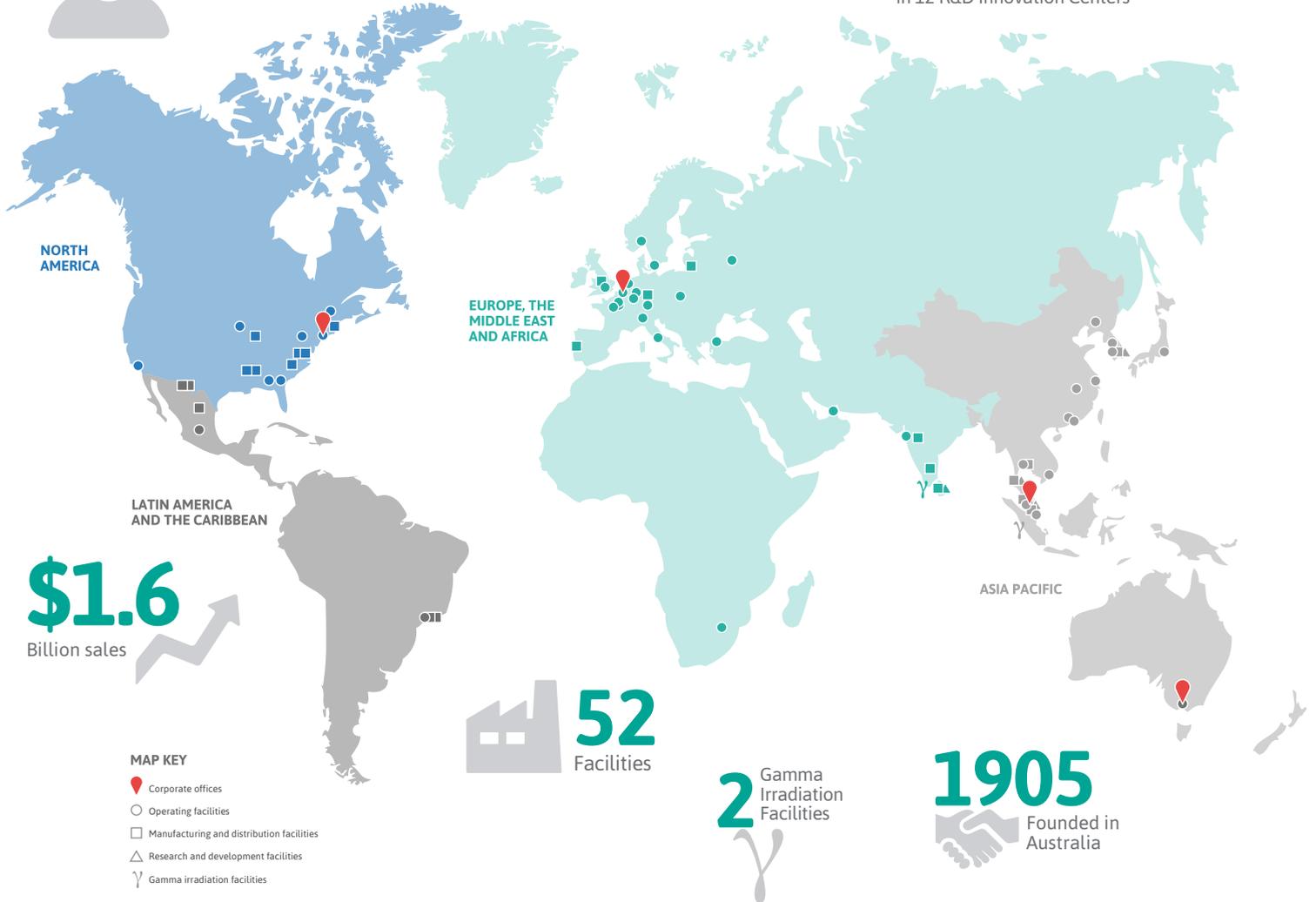
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A&M
INDUSTRIAL
PRODUCTS | SERVICES | SOLUTIONS

GLOBAL SALES, PRODUCTS AND SUPPLY CHAIN INFRASTRUCTURE

 **14,000**
Employees

200 
R&D employees worldwide
in 12 R&D Innovation Centers



DEDICATED TO SAFETY

Ansell has been protecting workers for over 125 years. We have specialized teams across 10 industries dedicated to developing solutions for the hazards and applications that workers face every day.

Ansell is dedicated to safety: We provide a comprehensive range of gloves and body protection solutions to cover worker needs across the metal fabrication industry.

METAL FABRICATION INDUSTRY PROCESSES

1 CASTING & MELTING



2 FORGING



Applications:

- Foundry operations
- Handling materials with sharp or rough edges
- Handling parts in high heat areas

User needs:

- Abrasion & cut resistance
- Grip in dry environments
- Flame & contact heat resistance

Applications:

- Forging operations
- Forging shapes using presses or hammers
- Extruding, bending and punching shapes

User needs:

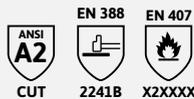
- Abrasion & cut resistance
- Grip in dry environments
- Flame & contact heat resistance



ActivArm[®] 42-474

Benefits & Features:

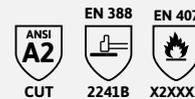
- Complete protection for hand and wrist
- Superior heat resistance
- Intermittent handling of objects up to 400°F



ActivArm[®] 42-474

Benefits & Features:

- Complete protection for hand and wrist
- Superior heat resistance
- Intermittent handling of objects up to 400°F



Power Flex[®] 80-600

Benefits & Features:

- DuPont[™] Kevlar[®] liner for thermal protection
- Excellent grip and comfort
- High cut resistance from engineered fibers



HyFlex[®] 11-542

Benefits & Features:

- High comfort with high cut protection
- INTERCEPT[™] Cut Resistance Technology
- ZONZ[™] Comfort Fit Technology



- ANSELL GRIP
- FORTIX
- INTERCEPT
- ZONZ



Vantage[™] 70-765

Benefits & Features:

- DuPont[™] Kevlar[®] liner for cut protection
- Reinforced thumb crotch
- Premium leather palm for superior grip



ActivArm[®] 43-113

Benefits & Features:

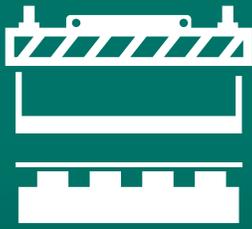
- High heat applications
- Knitted glove with DuPont[™] Kevlar[®] and long cuff
- Soft and comfortable



DuPont[™] Kevlar.

DuPont[™] Kevlar.

3 STAMPING & CUTTING



4 MACHINING



Applications:

- Press shop operations
- Processing sheets, coils, tubes
- Cutting glass sheets, panels

User needs:

- Abrasion, cut, puncture, impact resistance
- Grip in both dry & oily environments
- Contact heat resistance

Applications:

- Metalwork, glass processing
- Fabricating metal parts, glass sheets
- Assembly & inspection of components

User needs:

- Abrasion, cut, puncture and chemical resistance
- Grip in both dry & oily environments
- Dexterity, tactility



HyFlex® 11-542

Benefits & Features:

- High comfort with high cut protection
- INTERCEPT™ Cut Resistance Technology
- ZONZ™ Comfort Fit Technology



- ANSELL GRIP™
- FORTIX™
- INTERCEPT™
- ZONZ™



HyFlex® 11-644

Benefits & Features:

- Excellent flexibility and fit
- INTERCEPT™ Cut Resistance Technology
- Excellent abrasion resistance



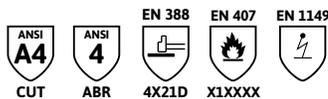
- INTERCEPT™



HyFlex® 11-541

Benefits & Features:

- INTERCEPT™ Cut Resistance Technology
- Advanced comfort and fit
- Excellent slightly wet and oily grip



- ANSELL GRIP™
- FORTIX™
- INTERCEPT™
- ZONZ™



HyFlex® 11-937

Benefits & Features:

- High comfort with superior cut protection
- ANSELL GRIP™ Technology
- RIPEL™ Liquid Repellence Technology



HyFlex® 11-751

Benefits & Features:

- INTERCEPT™ Cut Resistance Technology
- Increased abrasion resistance
- High durability polyurethane coating



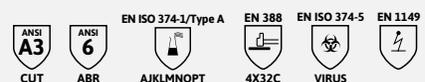
- INTERCEPT™



AlphaTec® 58-735

Benefits & Features:

- Nitrile barrier for advanced chemical protection
- INTERCEPT™ Cut Resistance Technology
- ANSELL GRIP™ Technology



5 LOGISTICS



Applications:

- Delivery of parts to production line
- Delivery of finished equipment
- Driving fork lifts and trailers

User needs:

- Abrasion, cut resistance
- Grip in both dry & oily environments
- Thermal protection against cold weather

6 FINISHING SHOP



Applications:

- Plating, coating, sealing, painting
- Applying finish to materials, products
- Handling application & cleaning tools

User needs:

- Paint compatible, antistatic clothing
- Silicone and lint free hand protection
- Sweat resistant garments



HyFlex® 11-727

Benefits & Features:

- INTERCEPT™ Cut Resistance Technology
- Handling sharp objects
- Breathable liner



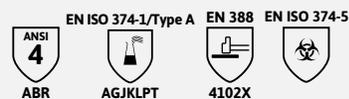
INTERCEPT



AlphaTec® Solvex® 37-185

Benefits & Features:

- Superior puncture and abrasion protection
- Chemical resistance
- Excellent durability



HyFlex® 11-600

Benefits & Features:

- High abrasion resistance
- Form-fitting liner matches contours of hand
- High degree of tactile sensitivity



MICROFLEX® 93-260

Benefits & Features:

- Nitrile & neoprene provide broad resistance against harsh chemicals
- Extended cuff, 12" length
- Silicone free



HyFlex® 11-840

Benefits & Features:

- Versatility combined with abrasion resistance
- Precision handling for assembly work
- Comfort, dexterity and protection



FORTIX



MICROCHEM® by AlphaTec® 68-2000C

Benefits & Features:

- Reduces the risk of heat stress with back panel fabric in highly breathable SMS material
- Available collared or hooded
- Silicone free



7 ASSEMBLY



8 MAINTENANCE



Applications:

- Fastening components, parts
- Positioning equipment using hands, tools
- Adjusting panels, parts, components

User needs:

- Abrasion, cut resistance
- Grip in a dry environment
- Dexterity, tactility

Applications:

- Production line support & maintenance
- Equipment repair, maintenance
- Assembly & disassembly of equipment

User needs:

- Abrasion, cut, puncture, chemical resistance
- Dexterity, tactility
- Flame & contact heat resistance



HyFlex® 11-812

Benefits & Features:

- Easily tears at multiple risk areas
- ZONZ™ Technology for enhanced comfort
- Ultra thin design for excellent tactility



HyFlex® 11-840

Benefits & Features:

- High abrasion resistance
- Form-fitting liner matches contours of hand
- Good combination of protection and comfort



HyFlex® 11-816

Benefits & Features:

- Unparalleled comfort and extreme tactility
- Extended glove life and secure grip
- FORTIX™ Abrasion Resistance Technology



MICROFLEX® 93-850

Benefits & Features:

- 2X more durable than leading brands*
- Improved grip
- 2X more chemical splash protection than leading brands**



HyFlex® 11-250/251

Benefits & Features:

- Seamless design
- INTERCEPT™ Cut Resistance Technology
- Silicone and Latex Free



MICROCHEM® by AlphaTec® 68-1500 Plus FR

Benefits & Features:

- Flame retardant and anti-static
- Air and water vapor permeable
- Silicone free



* Based on Ansell durability pull test data, when compared to performance of disposable nitrile gloves of similar thickness.

** Based on EN 374 and ASTM F739 chemical permeation test data, when compared to performance of disposable nitrile gloves of a similar weight.

OUR LATEST INNOVATIONS

HyFlex® 11-542

Lightest weight cut level A7 glove

Applications:

- Heavy Final Assembly
- Machining, Grinding
- Maintenance
- Material Handling
- Metal Press
- Primary Assembly
- Stamping

Performance Ratings:



Sizes: 6 – 11

Key Features & Benefits:

- High cut resistance
- High dexterity
- High comfort & lightweight
- Dirt masking design for extended use life
- EN407 Contact heat protection Level 1
- Fiberglass free
- Natural rubber latex free
- Silicone Free

Technology:

- **ANSELL GRIP™**
Ansell Grip Technology
- **FORTIX™**
Abrasion Resistance Technology
- **INTERCEPT™**
Cut Resistance Technology
- **ZONZ™**
Comfort Fit Technology



AlphaTec® 58-735

Light-Duty / Cut Resistant with a Palm Dip-coating

Applications:

- Assembling and mounting components
- Cleaning of plant and machines
- Filling, blending and charging of raw materials
- Handling application & cleaning tools
- Handling metal sheets & panels
- Handling parts with sharp, rough edges
- Mixing or loading chemicals
- Removal of broken glassware
- Sample taking and processing
- Spill or leakage cleanup

Performance Ratings:



Sizes: 6 – 11

Key Features & Benefits:

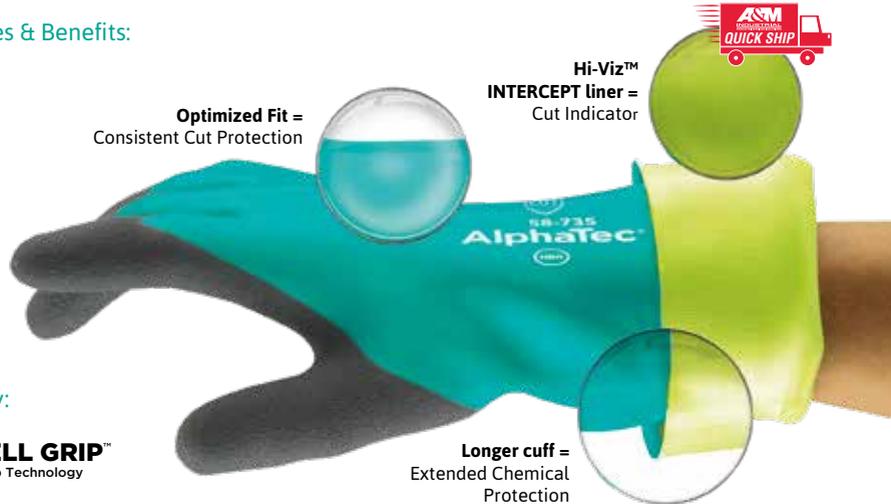
Optimized Fit = Consistent Cut Protection

Hi-Viz™ INTERCEPT liner = Cut Indicator

Longer cuff = Extended Chemical Protection

Technology:

- **ANSELL GRIP™**
Ansell Grip Technology
- **INTERCEPT™**
Cut Resistance Technology



HyFlex® 11-937

High comfort with superior multi-risk cut, oil and liquid protection.

Applications:

- Adjusting panels, parts components
- Adjusting parts, systems
- Assembly & inspection of components
- Chassis assembly, body trimming
- Delivery of parts to production line
- Engine transmission and repair
- Equipment repair & maintenance
- Fastening components, parts
- Oil, fluids and filter change

Performance Ratings:



Sizes: XS, S, M, L, XL, XXL

Key Features & Benefits:

- Protects against lacerations, oil and industrial fluid exposure
- Ultra-lightweight 18 gauge design provides dexterity and a high level of comfort
- Reinforced thumb crotch for increased protection & extended use life
- Grip performance for safe handling in dry-to-oily applications
- Silicone free

Technology:

- **ANSELL GRIP™**
Ansell Grip Technology
- **FORTIX™**
Abrasion Resistance Technology
- **RIPEL™**
Liquid Repellence Technology
- **ZONZ™**
Comfort Fit Technology



Options: HyFlex® 11-939 fully coated

HyFlex® 11-931 palm coated



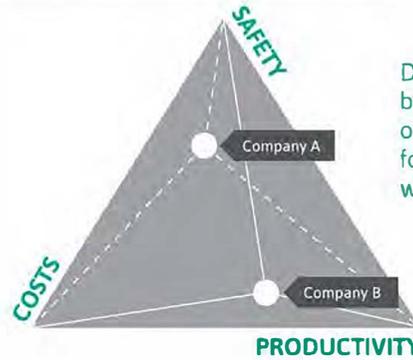
ANSSELL GUARDIAN: MAXIMIZING SAFETY AND PERFORMANCE

Ansell**GUARDIAN**[®]

FOCUS ON SAFETY TO IMPROVE YOUR BUSINESS PERFORMANCE

Ansell Guardian[®] is our proprietary service to help companies select the right personal protective equipment solution to improve their safety, productivity and cost performance.

An integrated approach. Ansell Guardian[®] partners with organizations around the world to address the challenges in today's PPE environment and deliver measurable safety and business improvements



Depending on the business objectives, one or more of the following solutions will be deployed.

CHEMICAL GLOVE AND SUIT SELECTION SIMPLIFIED

Ansell Guardian[®] Partner simplifies the glove and suit selection process for your unique set of chemicals.

Ansell Guardian[®] Partner evaluates the resistance of glove and suit materials against your chemicals to offer a risk assessment with expected permeation breakthrough times. This assessment can either be carried out during a personal consultation with one of our Ansell Guardian[®] specialists or online by using our chemical permeation database. As a result, selecting the right chemical glove and suit has never been easier.



QUICK SHIP gloves are stocked in sizes 8-10 and will ship within 24 hours, often the same day. Other models and sizes may take longer.

CONTACT YOUR A&M INDUSTRIAL REPRESENTATIVE REGARDING:

METALWORKING

- Cutting Tools
- Abrasives
- Work Holding
- Coolants & Lubricants
- Machinery

SAFETY PRODUCTS & SERVICES
MATERIAL HANDLING & STORAGE
PROCESS SYSTEMS & EQUIPMENT
HOSE, FITTINGS, & ASSEMBLIES
MILL SUPPLIES & JAN SAN
INVENTORY MANAGEMENT SERVICES



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DISCLAIMER: Recommendations made in this note are based on extrapolations from laboratory test results and information regarding the composition of chemicals and may not adequately represent specific conditions of end use. Synergistic effects of mixing chemicals have not been accounted for. For these reasons, and because Ansell has no detailed knowledge of or control over the conditions of end use, any recommendation must be advisory only and Ansell fully disclaims any liability including warranties related to any statement contained herein.

WARNING: No glove provides complete protection against cuts, abrasions or chemicals. Users should test the suitability of Ansell products for a particular purpose, for use within a particular environment or against particular chemicals. See <http://www.ansell.com/en/Legal/Disclaimer.aspx> for additional information.

WARNING: Natural Rubber Latex may cause allergic reactions in sensitive individuals.

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