

FACT SHEET

Hand Protection

Condor personal protective equipment offers you a wide range of quality gear made to meet or exceed relevant ANSI and OSHA safety standards.



Glove Information

COMPLIANCE

OSHA 1910.138(a) General Requirements

Employers shall select and require employees to use appropriate hand protection when employees' hands are exposed to hazards such as those from skin absorption of harmful substances, severe cuts or lacerations, severe abrasions, punctures, chemical burns, thermal burns, and harmful temperature extremes.

1910.138(b) Selection

Employers shall base the selection of the appropriate hand protection on an evaluation of the performance characteristics of the hand protection relative to the task(s) to be performed, conditions present, duration of use, and the hazards and potential hazards identified. For additional information on OSHA Standards please visit: www.osha.gov.

TYPES OF GLOVES



2XRU7

Impact

Protect against hand, finger, and arm fatigue by reducing vibration impact and shock hazards from tools and equipment.

Uses: Automotive assembly, construction, manufacturing, warehousing.



6AF50

General Purpose

Reduce hand injuries and fatigue while providing excellent grip, flexibility, comfort, and abrasion resistance.

Uses: Automotive and light assembly, food handling, maintenance, metal/steel industries, warehousing.



2YEH9

Chemical Resistant

Protect against a variety of chemicals with excellent abrasion, puncture, and tear resistance.

Uses: Aerospace, agriculture, automotive, chemical and food processing, general maintenance, mining, petrochemicals, refining.



5T926

Leather Palm and Driver's

Choose from a variety of cowhide, pigskin, goatskin, and deerskin gloves for comfort, durability, dexterity, and abrasion resistance.

Uses: Construction, contractors, gardening, general assembly and maintenance, welding.



2RA22

Cut and Puncture Resistant

Available in a wide variety of materials that offer different levels of cut, abrasion, and puncture resistance against all types of sharp objects, including glass, metal, and needles.

Uses: Automotive assembly, construction, food industry, glass handling, metal fabrication, parts handling, wood handling.



3BA57

Mechanic's

Protect workers' hands from impact, nicks, and abrasion without sacrificing dexterity or grip for handling tools and parts.

Uses: Assembly, maintenance, construction, contractors, mechanics, warehousing.



6JF92

Disposable

For one-time use applications; thin gauge thickness provides superior flexibility, sensitivity, and dexterity.

Uses: Food service, general maintenance, laboratories, medical, pharmaceutical.



2UUA8

Palm Coated

Offer dexterity, grip, and comfort while protecting against snags, punctures, and abrasions. Appropriate for use in wet areas where grip and dexterity are critical. Substitute for leather work gloves.

Uses: Automotive and light assembly, construction, maintenance, shipping/receiving.



1ZPP3

Temperature-Resistant

Protect from extreme hot and cold temperatures. Certain applications depend on weight of product handled and length of time handled.

Uses: Aluminum casting, automotive, cold storage, injection molding, steel manufacturing, stamping.

Glove Information

OSHA REGULATIONS FOR HAND PROTECTION

1910.138(a) General Requirements

Employers shall select and require employees to use appropriate hand protection when employees' hands are exposed to hazards such as those from skin absorption of harmful substances, severe cuts or lacerations, severe abrasions, punctures, chemical burns, thermal burns, and harmful temperature extremes.

GLOVE SIZING CHART

Wrap a tape measure around your palm to determine the circumference of your hand in inches. Refer to the sizing chart to determine your appropriate glove size.

Palm Size (In.):	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12
Size:	XS	S	M	L	XL	2XL
Other Sizes:	Ladies			Men's		
	Universal					
					Jumbo	



1910.138(b) Selection

Employers shall base the selection of the appropriate hand protection on an evaluation of the performance characteristics of the hand protection relative to the task(s) to be performed, conditions present, duration of use, and the hazards and potential hazards identified.

ANSI Cut, Puncture and Abrasion Resistance Guide

CHOOSE THE APPROPRIATE LEVELS OF CUT, PUNCTURE, AND ABRASION RESISTANCE FOR HAND AND ARM PROTECTION

The ANSI Cut, Puncture, and Abrasion Resistance tables below, provided by ANSI, help identify the level of resistance needed in each area, enabling compliance with OSHA regulations 1910.138 (a) and 1910.138 (b), mitigating risk of injury, and increasing worker productivity. The ANSI/ISEA 105-2005 standard provides a consistent, numeric-

scale method for manufacturers to rate their products in each of the designated areas. The "level of resistance" numbering has been incorporated into the catalog to help purchasers and users make informed decisions when choosing gloves and sleeves for each category of protection.

- **The ANSI/ISEA 105-2005 standard provides performance classification levels for many different materials based on standardized test methods.**

ANSI/ISEA: American National Standards Institute and International Safety Equipment Association. For additional information on ANSI Standards please visit: www.ansi.org.

LEVEL	WEIGHT (GRAMS) NEEDED TO CUT THROUGH MATERIAL WITH 25MM OF BLADE TRAVEL
Cut Resistance	
0	< 200
1	≥ 200
2	≥ 500
3	≥ 1000
4	≥ 1500
5	≥ 3500

Note: When tested in accordance with ASTM F1790-97.

LEVEL	PUNCTURE (NEWTONS)
Puncture Resistance	
0	< 10
1	≥ 10
2	≥ 20
3	≥ 60
4	≥ 100
5	≥ 150

Note: When tested in accordance with Clause 6.4 on EN 388:2003.

LEVEL (TESTED AT 500G LOAD)	ABRASION CYCLES TO FAIL
Abrasion Resistance	
0	< 100
1	≥ 100
2	≥ 500
3	≥ 1000
LEVEL (TESTED AT 1000G LOAD)	ABRASION CYCLES TO FAIL
4	≥ 3000
5	≥ 10000
6	≥ 20000

Note: When tested in accordance with ASTM D3389-05.

Leather Glove Information

CUFF STYLES



Knit Wrist

Seamless, stretchable rib knit is sewn onto glove to provide a comfortable, secure fit. Fits under clothing sleeves to keep cold air out.



Gauntlet

Extended cuff provides greater protection of wrist and forearm.



Safety

Protects wrist and allows easy movement and removal of glove in emergency situations.



Slip-On

Constructed without a cuff, these gloves slip on and off easily. Material extends over the wrist. Primarily used in a driver's, mechanic's, or general purpose gloves.

THUMB STYLES



Keystone

Specially designed 1-piece, inset thumb is double-sewn and has double thickness at this critical wear point. This construction provides extra comfort and allows extra wear.



Wing

Mirrors the natural shape of the hand and offers comfortable gripping and free thumb movement. Provide extended wear. The thumb pattern is easily identified: when the glove is laid flat, the thumb should extend to the side.



Straight

Cut as 1 piece with the palm, the thumb extends straight from the wrist. This style uses less material than the similar Wing thumb, reducing the cost of the glove.

CUT STYLES



Gunn

Seamless on back for greater comfort; the palm side of the middle 2 fingers is a separate glove pattern and is sewn into the palm at the base of the middle 2 fingers. In leather styles, the seam is reinforced with a welt increasing gloves' durability and wear life.



Clute

Seamless palm made from a continuous piece of leather means greater ease of movement, comfortable gripping, and a roomy fit. Back of glove has parallel seams. Finger side seams are toward palm side of glove. Primarily used in fabric gloves and lightweight leathers.

MATERIALS



Cowhide

Excellent abrasion resistance, breathability, and thermal protection.



Goatskin

Most abrasion resistance. Soft and pliable. Twice as durable as cowhide and pigskin materials. Suitable for jobs where optimal dexterity is important.



Pigskin

High abrasion resistance and heat protection. Material is flexible and won't stiffen when wet. Suitable for jobs that are exposed to moisture.



Deerskin

Features the highest tensile strength. Soft, flexible and long wearing. Suitable for jobs where optimal dexterity is important.

Mechanic's Glove Information

Gloves are available in a variety of styles to meet the demands of a broad range of applications. Choose gloves with single-layer palms for general tasks, padded palms for impact resistance, or patch palms for additional wear and

abrasion resistance. PVC-coated palms offer increased grip. Insulated styles are available for hot or cold applications.



High-Visibility Mechanic's Gloves

Bright colored mechanic's gloves promote awareness and compliance.



Abrasion-Resistant Mechanic's Gloves

Clarino® synthetic leather palms and PVC patches improve grip.



Leather Mechanic's Gloves

Mechanic's gloves made out of leather.



Abrasion-Resistant Extrication Gloves

Feature synthetic leather, sewn with Kevlar®, Armortex® patches on top and bottom, and gel-padded palm patches. Elastic wrist.



Box-Handling Gloves

Mechanic's gloves designed for box-handling applications.



Cold Conditions Gloves

Mechanic's gloves designed for colder climates.



Impact Mechanic's Gloves

Provide protection against impact and vibration. All brands feature synthetic leather padded palms, except Condor and Mechanix Wear® styles have Clarino® synthetic leather palms for excellent durability. All styles have hook and-loop closure.

Palm-Coated Glove and Liner Information

Choose from a variety of coating material and liner options.

COATING MATERIALS:

Polyurethane

Flexible, synthetic material helps protect hands from harmful residues and chemicals while providing grip and abrasion-resistance. Allows tactile sensitivity.



Nitrile

A synthetic rubber that resists snags, punctures, abrasions, and cuts. Nitrile is suitable for people with latex allergies and provides resistance to petroleum, acids, and aromatic and chlorinated solvents.



Natural Rubber/Latex

A natural material with elasticity that provides resistance to cuts, punctures, and slashes with a safe, secure grip.

PVC

Synthetic thermoplastic polymer provides abrasion resistance, tactility, and dexterity combined with wet and dry grip. Ideal for applications where wear rates are moderate to high.



Nitrile Foam

Absorbs oils better than standard nitrile coating and provides grip in oily or greasy applications. Bi-polymer. Combination of nitrile and polyurethane that provides durability, abrasion resistance, softness, and dexterity.

LINERS:

Nylon

Lightweight lining provides high tensile strength and dexterity.

Knit

Standard weight lining allows hands to breathe for cool and comfortable extended-wear protection.

Bamboo

Lighter, softer, and more absorbent than cotton or other synthetic materials. Breathable material wicks moisture away from the skin. 100% natural bamboo knit shells are inherently strong, antibacterial, biodegradable, and provides UV protection.



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