

# WELDING P R O T E C T I O N



**CPA**   
CHICAGO PROTECTIVE APPAREL

DIVISION OF  
MECHANIX WEAR



[www.chicagoprotective.com](http://www.chicagoprotective.com)

# A COMMITMENT TO SAFETY



Welding can be a dangerous undertaking if the proper precautions are not taken. Here at Chicago Protective Apparel, we take worker safety seriously. Since 1913, we have been developing top-quality, innovative, and well-designed PPE solutions for various industries; including the apparel and accessories welders rely on to avoid exposure to safety hazards. We are pleased to offer our welding catalog, which includes an overview of our customization capabilities, along our long-standing, go-to favorites. Our design team creates welding clothing with several key considerations in mind. These include:

- Ergonomic challenges of performing an operation in a confined space and / or an unusual or strained position
- Exposure to UV radiation and intense bright light from an electric arc, causing burns and damage to skin
- Extreme heat and flames resulting in burns
- Mobility, fit & overall comfort

Besides leather and green FR cotton which are typically used in welding PPE, we offer state-of-the-art fabrics that provide multi-hazard protection. They comply with safety standards such as NFPA 70E (electric arc), NFPA 2112 (flash fire), as well as European safety standards for flame resistance, molten metal splash, and welding PPE. Some of our most popular fabrics include:

## INDURA®

INDURA® is known as the first fire resistant 100% cotton fabric engineered to provide guaranteed flame resistance for the life of the garment, and can withstand either high temperature industrial or home laundering. Because it provides the comfort of cotton and multi-hazard protection from electric arc, flash fire, molten ferrous metal and welding exposures, INDURA® is a popular choice for use in protective apparel. It meets both NFPA 2112 and NFPA 70E standards. Since many welding operations

involve an open electric arc or flame, INDURA® is a good choice for use in welding PPE. We feature various weights and weaves, including whipcord.

## ULTRASOFT®

UltraSoft® is a fabric blend which was designed with safety and comfort in mind. This unique blend of 88% cotton and 12% high-tenacity nylon provides comfort, lengthens wear life, and protective performance. The fabric is constructed with the nylon on the outer surface for better abrasion resistance and wear life, while the cotton fibers face towards the skin to optimize comfort. It is also guaranteed FR for the life of the garment, and withstands high temperature industrial or home laundering. Like Indura®, UltraSoft® provides protection from arc flash and flash fire, as well as light welding exposures.

## CARBONX® REPEL

CarbonX® Repel is a proprietary blend of inherently FR fibers with an encapsulated barrier of silicone, resulting in one of the most diverse high-heat multi-functional fabrics on the market. Repel is lightweight compared to most aluminized fabrics, but with a similar ability to shed sparks, spatter and molten splash, passing ASTM F955.

## MARKO WELD

According to both U.S. and European standards, Marko Weld is fire resistant, protects from welding sparks, and offers multi-hazard protection from electric arc. It is a blend of modacrylic, cotton, ceramic coating, and anti-static fibers. At 12 oz. / sq. yd., Marko Weld is much lighter than leather, and provides comfort and breathability.

# SHIRT JACKETS



 **Indura**<sup>®</sup>

## ORANGE INDURA<sup>®</sup> SHIRT JACKET

- Made from orange 9 oz. Indura<sup>®</sup>
- Two chest pockets
- Two side seam pockets
- One sleeve pocket
- Snap closures on front placket, pockets, and cuffs
- Part #625-WIN-0



**marko**<sup>®</sup>

## TWO-TONE GREY & NAVY SHIRT JACKET

- Grey Marko<sup>®</sup> Weld on front yoke, back yoke and sleeves
- Navy Marko<sup>®</sup> Weld on rest of shirt
- Two chest pockets
- Two side seam pockets
- One sleeve pocket
- Snap closures on front placket, pockets, and cuffs
- Part #625-MW-GN

# REPEL™ FUSION JACKET



*Front View*



*Back View*

## ORANGE CARBONX® REPEL FUSION JACKET

- 30" length
- Made from 9.5 oz./sq. yd. Repel and 9 oz. / sq. yd. orange Indura®
- Sleeves lined with 5.5 oz./sq. yd. UltraSoft®
- Front snap closure
- Vented back with total of five (5) partitions
- Part #600-CX8C-OR-F-SIZE



## NAVY MARKO® WELD JACKET

- Made from navy Marko® Weld
- Mesh-lined back vent
- High collar with tab closure and tab closure at hem
- Hidden snap closure covered with Velcro placket
- Two front pockets with center front facing openings and zipper closures
- Sleeve pocket
- Part #600-WMW



## NAVY MARKO® WELD CAPE SLEEVE

- Made from navy Marko® Weld
- High collar with tab closure
- Hidden snap closure under front placket
- Velcro under tabs
- Sleeve pocket
- Part #577-WMW



## NAVY MARKO® WELD SLEEVE

- Made from navy Marko® Weld
- 18" length
- Snap closure at wrist
- Adjustable pull strap at arm
- Part #593-WMW

Mechanix Wear developed the Torch series welding gloves to take hand protection for welders to a totally new level. They are crafted with heat-resistant leathers, and designed with innovative features made to enhance dexterity, control, and protection. Tested and certified to ANSI standards. TAA certified versions of many gloves available.



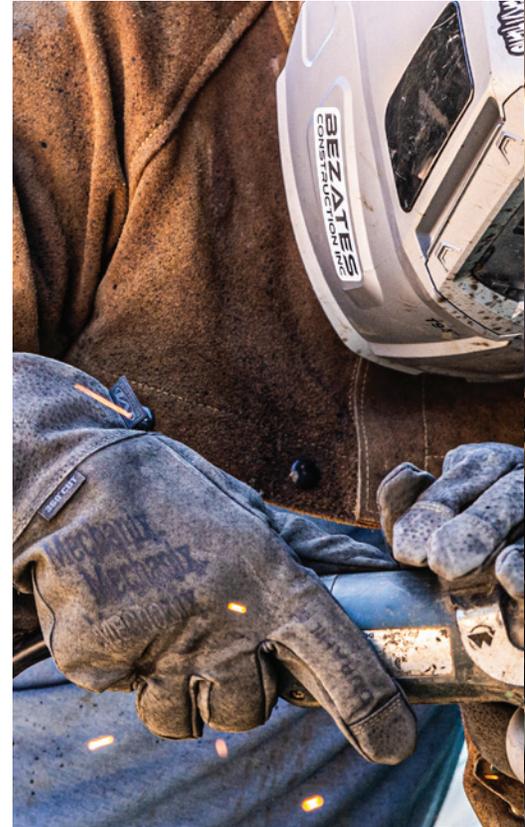
ANSI <b>2</b> HEAT	ANSI <b>4</b> ABR	ANSI <b>3</b> PUN
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<b>PART #</b>	WS-REG				
<b>SIZE</b>	S-008	M-009	L-010	XL-011	2XL-012

**MECHANIX WEAR TORCH REGULATOR**

We developed the Regulator for MIG welders working in heavy construction where sharp materials are at work. Regulator welding gloves are crafted with heat-resistant Durahide Boar leather, constructed with DuPont™ Kevlar® thread, and lined with ANSI A4 cut-resistant fabric to protect working hands under the hood. Our patented HiRoller™ fingertip design repositions exposed seams to improve dexterity, durability and control.

- Extended gauntlet cuff protects against welding slag
- FR Cotton lining provides added thermal protection
- Glide-resistant leather side seam reinforcement protects from surface burns while you work
- Comfortable Keystone thumb design gives you better control
- Gunn Cut glove design reduces seam usage in the palm for heavy material handling
- Internally reinforced fingertips provide crucial heat resistance and increased wear



ANSI <b>2</b> HEAT	ANSI <b>3</b> ABR	ANSI <b>3</b> PUN
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<b>PART #</b>	WS-FPLS				
<b>SIZE</b>	S-008	M-009	L-010	XL-011	2XL-012

**MECHANIX WEAR TORCH PULSE**

A new level of control for precision welders is here. We built our Pulse welding gloves with comfortable Durahide™ goatskin to create the perfect tool for TIG welders. Our patented HiRoller™ fingertip design repositions exposed seams to improve dexterity, durability and control.

- Cowhide gauntlet cuffs protect against welding slag
- Glide-resistant leather side seam reinforcement protects from surface burns while you work
- Comfortable Keystone thumb design gives you better control
- Gunn Cut glove design reduces seam usage in the palm for heavy material handling
- Internally reinforced fingertips provide crucial heat resistance and increased wear



# TORCH SERIES GLOVES



## **MECHANIX WEAR** TORCH **CASCADE**

We developed the Cascade in motorsports to handle a range of metalwork all with one set of welding gloves. It's crafted with Durahide cow performance leather to create the perfect tool for MIG and TIG welding applications. Our patented HiRoller™ fingertip design repositions exposed seams to improve dexterity, durability and control.

- Cowhide gauntlet cuffs protect against welding slag
- Glide-resistant leather side seam reinforcement protects from surface burns while you work
- Comfortable Keystone thumb design gives you better control
- Gunn Cut glove design reduces seam usage in the palm for heavy material handling
- Internally reinforced fingertips provide crucial heat resistance and increased wear



<b>PART #</b>	WS-CCD				
<b>SIZE</b>	S-008	M-009	L-010	XL-011	2XL-012

<b>ANSI</b>	<b>ANSI</b>	<b>ANSI</b>
<b>2</b>	<b>3</b>	<b>3</b>
<b>HEAT</b>	<b>ABR</b>	<b>PUN</b>



## **MECHANIX WEAR** TORCH **FLUX**

Heavy hitters in the construction industry have grown accustomed to poor fitting welding gloves. We built our Flux gloves to handle high heat Stick work and MIG welding applications with a new level of control. The Flux is crafted with Durahide top grain cow, and lined with flame-resistant cotton to create the perfect tool for Stick welders. Our patented HiRoller™ fingertip design repositions exposed seams to improve dexterity, durability and control.

- Extended gauntlet cuff protects against welding slag
- 5mm heat insert protects your knuckles with added heat resistance
- Glide-resistant leather side seam reinforcement protects from surface burns while you work
- Comfortable Keystone thumb design gives you better control
- Gunn Cut glove design reduces seam usage in the palm for heavy material handling
- Welding torch palm reinforcement
- Internally reinforced fingertips provide crucial heat resistance and increased wear



<b>PART #</b>	WS-FFLX				
<b>SIZE</b>	S-008	M-009	L-010	XL-011	2XL-012

<b>ANSI</b>	<b>ANSI</b>	<b>ANSI</b>
<b>3</b>	<b>3</b>	<b>4</b>
<b>HEAT</b>	<b>ABR</b>	<b>PUN</b>

# GREEN FR COTTON CLOTHING



## GR JACKET

- Made of 9 oz. green FR cotton
- 30" length
- Snap front closure
- Hidden inside left chest pocket
- Adjustable snap wrist
- Part# 600-GR

## GR JACKET WITH LEATHER SLEEVES

- 9 oz. green FR cotton body
- Grey split leather sleeves
- 30" length and snap front closure
- Adjustable snap wrist
- Hidden inside left chest pocket
- Part #600-GR-CLSLV

## GR APRON

- Made of 9 oz. green FR cotton
- 30", 36", 39" 42", and 48" lengths
- Different closures available
- Part #5(length)-GR



**18" Sleeve with Blue Gold Elastic at Each End**  
AA Option • Part #593-GR-AA



**18" Sleeve with White Elastic at Each End**  
BB Option • Part #593-GR-BB

## 18" GR COTTON SLEEVE

- Made of 9 oz. green FR cotton
- 18" length
- 9 oz. green FR cotton
- Elasticized at arm and wrist

AA Option: 2¼" blue gold elastic at each end  
Part #593-GR-AA

BB Option: 3/8" white elastic at each end  
Part #593-GR-BB



### GR CAPE SLEEVE & BIB

- Made of 9 oz. green FR cotton
- 19" length for bib
- Snap front closure
- Webbing ties to secure bib
- Grommets on each side of bib
- Part #577-GR (cape sleeve)
- Part #BIB-GR-19 (bib)

### GR SPLIT LEG APRON

- Made of 9 oz. green FR cotton
- Available in 36", 39"- 42", and 48" lengths
- Secures to legs, neck and waist with webbing ties and snap slide buckle closure
- Webbing ties for waist and neck attached by snaps
- Part #550-GR-LENGTH-SW

### GR COTTON CHAPS

- Made of 9 oz. green FR cotton
- Reinforced crotch
- Adjustable 1" wide natural webbing sewn waist tie with Nexus® clip
- Three (3) leather leg straps per leg with snap slide buckle closure
- 29" inseam
- Part #555-GR



**23" Sleeve with Blue Gold Elastic at Each End**  
AA Option • Part #595-GR-AA



**23" Sleeve with White Elastic at Each End**  
BB Option • Part #595-GR-BB

### 23" GR SLEEVE

- Made 9 oz. green FR cotton
- 23" length
- 9 oz. green FR cotton
- Elasticized arm and wrist

AA Option: 2¼" blue gold elastic at each end  
Part #593-GR-AA

BB Option: 3/8" white elastic at each end  
Part #593-GR-BB

# LEATHER CLOTHING



## LEATHER WELDING JACKET

- Made from split cowhide
- High collar with snap closure
- Front snap closure
- Soapstone sleeve pocket
- Inside left side pocket
- Leather side tabs to adjust around waist
- Adjustable snaps at cuff
- Part #600-CL



## 18" LEATHER WELDING SLEEVE

- Made from cowhide leather
- 18" length
- Snap closure at wrist
- Adjustable pull strap at arm
- Part #593-CL



## LEATHER SPATS

- Made from split leather
- 7" high with 6" flare
- Standard with rear Velcro closures
- Kevlar® sewn
- One-ply leather flare
- Part #485-CL



### LEATHER CAPE SLEEVE & BIB

- Made from cowhide leather
- High collar with snap closure and front snap closure
- Sleeve pocket on both arms
- Snaps along hem of cape sleeve to attach bib and at cuffs
- Part #577-CL for Cape Sleeve
- Part #BIB-CL-19 for Bib

### LEATHER CHAPS

- Made from split leather
- Reinforced crotch
- Adjustable 1" wide natural webbing sewn waist tie
- Three (3) natural webbing sewn leg straps per leg
- 29" inseam
- Nexus® clip closure at waist and leg straps
- Part #555-CL



### LEATHER BIB APRON

- Made from split leather
- Available lengths: 30", 36", 39", 42" and 48"
- Chest pocket
- Criss-cross straps in back for secure fit
- Part #5(length)-CL

### LEATHER SPLIT LEG APRON

- Made from split leather
- Available lengths: 36", 42" and 48"
- Chest pocket
- Adjustable 1" wide natural webbing sewn ties
- Nexus® clip closures
- Part #550-CL-LENGTH

# DOMESTIC & IMPORTED GLOVES



## ALUMINIZED LEATHER WELDING GLOVE

- Made from split leather and aluminized split leather
- Gunn cut
- Wing thumb with welting
- Aluminized back radiates heat to keep hand cooler
- 14" length
- Wool lined
- Kevlar® stitched
- Part #901-ALUM



## ALUMINIZED LEATHER WELDING GLOVE WITH SNAPS

- Made from split leather and aluminized split leather
- Hand protection from severe heat of heavy MIG welding
- Wool lined and 14" length
- Eight (8) snaps for replaceable back pad Part #SN-88
- Also available as right hand (RHO), or left hand only (LHO)
- Part #SN-901-ALUM



## ALUMINIZED LEATHER ONE-FINGER MITTEN

- Made from rust split leather and aluminized leather back
  - 14" length
  - Rust split leather front and aluminized leather back
  - Mitten style with freed trigger finger
  - Wool lined
  - Kevlar® stitched
- Part #WSOF-ALUM**



## JUMBO WELDING GLOVE

- Made from cowhide split
  - Cowhide split
  - Fully sock lined
  - Wing thumb
  - Fully welted
  - Imported
- Part #SA2-JMB**

# GLOVE ACCESSORIES



## GLOVE PROTECTOR

Two-ply glove protector economizes by extending the wear of your gloves, while adding protection from radiant heat and splatter.

Part #88-ALUM



## WELDING BEANIES

Welding beanies for head protection from sparks. Available in leather or flame retardant cottons. Specify material and size.

Part #640-COLOR-SIZE



## ELASTIC TOP SPAT

Our most popular spat. Elastic top with rear snap closure. Adjustable instep strap. 7" height, 6" leather flare.

Part #E485-CL



## HIGH-IMPACT KNEE PAD

High-impact, two-piece plastic outer shell, jointed at the knee for full range of motion. Half shock-reducing inner pad and unique grip strip. Quick release straps. Replacement parts available.

Part #KP

# WELDING CURTAINS & BLANKETS

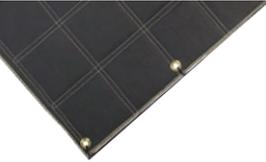
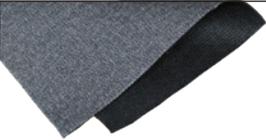


Improve the levels of safety and productivity at your facility. Choose a system that will protect you from welding and grinding hazards. All fabrics available as screen inserts.

Our most popular fabrics are: 12 oz. olive drab, 13 mil. Weldview in assorted colors (yellow, orange, grey, green and blue), fiberglass (plain or coated), and aluminized fabrics.

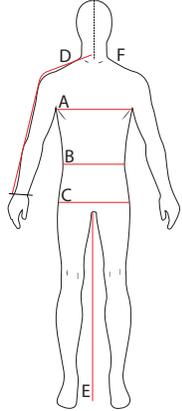
Screens are attached to frames with nylon beaded ties. Platform legs available for all screens. Casters available, two casters per platform leg. Screens available with one, two, three or four panels.

Curtains / Screen	Material	Weight	Description	Roll Width
	<b>Olive Drab Duck</b>	OD: 12 oz. OD: 10 oz. OD: 14.9 oz.	General use flame, water, and mildew resistant. Treated cotton duck. Most economical. 12 oz. is standard. 10 oz. and 14.9 oz. are available.	36" 48" 60" 72"
	<b>Weldview</b>	WV: 13-14 mil Yellow, orange, grey, green and blue	Translucent vinyl, filters most UV. Reduces visible flash and allows light in work areas. CFM approved.	62"

Blankets	Material	Weight	Description	Roll Width
	<b>Fire Quilt</b>	55 oz.	FM approved, modular hot work barrier. Stitched composite constructed of fiberglass mat between two layers of specially formulated silicone coated fiberglass. Meets NFPA 51B. Fiberglass mat resists temperatures of 1000° F, silicone fabric 500°F.	48" x 48" Work Pad
	<b>Z-Block</b>	23 oz.	High temperature, polymer coated materials, treated with a proprietary formulation of fire retardants. Offers exceptional resistance to fire, smoke, and weather conditions. Can withstand temperatures up to 1800°F.	52" 60"
	<b>Carbon Felt</b>	14 oz.	Woven fiberglass fabric with 100% carbon (partially carbonized acrylic fiber) on one side. Provides continuous operating temperature near 1000°F with an upper temperature limit of 1800°F. Excellent heat dissipating abilities.	60"
	<b>Heat Cleaned Glass</b>	HCG - 18 oz.	Most economical, lightweight, fiberglass. Melting temperature of 1000° F. Good for light welding protection.	40" 60" 72"

## HOW TO MEASURE FOR THE CORRECT SIZE

Dotted line - center back



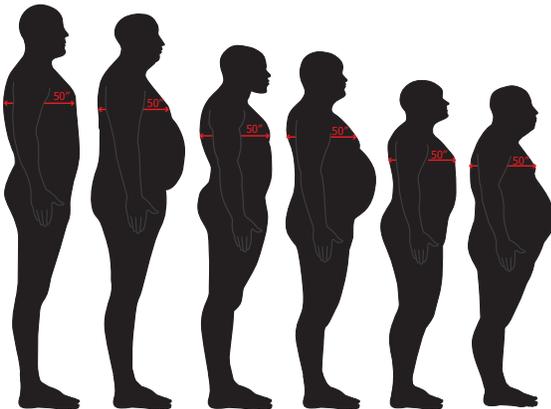
<b>A</b>	CHEST	Measure under arms, over the fullest part of the chest.
<b>B</b>	WAIST	Measure at smallest part of waist.
<b>C</b>	SEAT/HIP	Measure at widest part of hip.
<b>D</b>	SLEEVE	Measure from center back neck to wrist.
<b>E</b>	INSEAM	Remove shoes. Measure from crotch to floor.

## SIZING CHART

JACKETS, COATS & SHIRTS			
Size	Chest	Sleeve	PRICING
<b>S</b>	36/38	31	<i>Base Price</i>
<b>M</b>	40/42	32	<i>Base Price</i>
<b>L</b>	44/46	33	<i>Base Price</i>
<b>XL</b>	48/50	34	<i>Base Price</i>
<b>2XL</b>	52/54	35	<i>Base Price + 10%</i>
<b>3XL</b>	56/58	36	<i>Base Price + 20%</i>
<b>4XL</b>	60/62	37	<i>Base Price + 30%</i>
<b>5XL</b>	64/66	38	<i>Base Price + 40%</i>

## SIZE CUSTOMIZATION

No single measurement defines size. Garment size is determined by various precise anthropometric measurements such as the girth and length of the body, as well as the end use of the garment. For example, in the diagram on the bottom left, the men depicted all measure the same in the chest, yet they look very different.



The proper fit of PPE apparel is essential to worker safety, rather than about aesthetics. Here at CPA we understand that and want to make sure that you have the best fitting garment for your unique physique.

If you are unable to fit in a traditional size, you may need a tall size, a short size, or a big size. We can help you determine the right size for you. All we need is your height and the basic body measurements shown in the section at the top left of this page entitled "How to Measure for the Correct Size".

*Contact Us for Custom Fits*





DIVISION OF  
MECHANIX WEAR



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