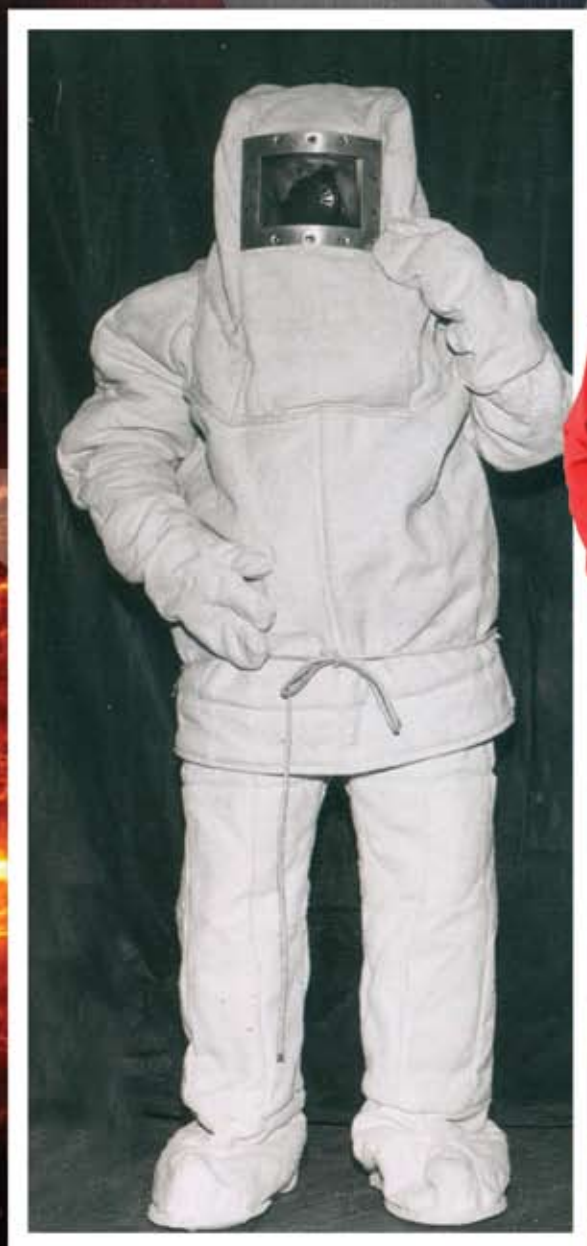




AMERICAN
SAFETY CLOTHING, INC.



1948



2013

Safety Apparel experts since 1940



1 800 827 1204
www.americansafetyclothingmfg.com



Questions to ask your customers to help assist in selecting proper PPE:

- ★ What is the task?
- ★ How high is the temperature?
- ★ How long is the exposure time?
- ★ What is the abrasion level?

Flame Protection



The majority of severe and fatal burn injuries are due to the individual's clothing igniting and continuing to burn, not by the exposure itself. A small spark or low energy arc flash could generate enough energy to ignite the non-FR clothing. Below are a list of flame resistant fabrics that ASC carries that are appropriate to be used as primary/secondary protection from flame. The level of protection typically rests in the fabric weight and composition.

Milliken Amplitude 6 oz, 7, oz, or 9 oz,
 Nomex IIIA® 4.5 oz or 6 oz
 Tencate Knit Plus™ 6.7oz

Tencate Tecasafe Plus™ 7 oz
 Polartec Power Dry® 7 oz
 Outlast® FR Silk Weight Jersey 4.5 oz
 Springfield FR Denim120™ 12 oz

Arc Flash Protection



Fabrics designed for Arc Flash protection have been tested to NFPA 70E specifications.. Fabric weights and number of layers will dictate the level of protection that a fabric or fabric system offers. The end user must determine level of exposure and dress to meet or exceed this level.

NF Arc™ 44 Cal, 57 Cal, 74 Cal
 Tecasafe Plus™ 8 Cal, 25 Cal
 Milliken Amplitude 8 Cal, 12 Cal, 20 Cal, 40 Cal

Dupont Protera® 12 Cal
 Polartec Wind Pro® Fr 9 Cal

Welding Protection



The intensity of the welding will help determine the fabrics needed for protection. TIG welding requires less protection than high amp welding. These fabrics can be used in clothing or for welding blankets. Below are a list of the material that would protect from heavy, medium and light intensity welding and grinding.

Leather (Heavy)
 ArcWeld™ (Medium)
 Green Sateen (Light)

Forge/Foundry Protection



High heat clothing should be worn when subjected to exposure to molten splash, radiant heat or flame. Below are a list of materials that would protect molten splash and high heat.

Aluminized Carbon Kevlar® 19oz or 14 oz
 Aluminized Kevlar® 19 oz
 Aluminized Rayon® 19 oz

Acrysil® 16oz
 Aluminized® P.B.I. 7 oz

Cut Protection



Cut resistant clothing is designed to protect against punctures and lacerations. Fabrics used in this clothing includes

Kevlar® 22 oz
 Cut Pro Vintage® (with stainless steel wire)
 Cut Pro- Natura® (no wire)

4	NFPA 70 E Compliance Guide	18	20 Cal Clothing / Kits
5	PPE Category Level Chart	19	25 Cal Clothing / Kits
6-7	Which Fabric Is Best	20	40 Cal Clothing / Kits
8	Sizing Chart	21	57 / 74 / 100 Cal Clothing Kits
9	FR Wind Pro Sweatshirts	22	Fresh Air Hood Option
10	FR Inherent T-Shirts	23	Arc Flash Accessories
11	Hi Vis Shirts/Vest/Outlast	24	Cooling Vest
12	Dailywear Shirts/Work Pants	25-30	Tools
13	Work Pants/Jeans	31-33	Alumized Primary Apparel
14	FR Coveralls	34	Hand Protection
15	Face Shields	35	Cut Resistant Apparel
16	8 Cal Clothing / Kits	36	Arc Weld
17	12 Cal Clothing / Kits		

NFPA 70E COMPLIANCE GUIDE

This guide shall only be used in conjunction with performing the necessary calculations contained in a flash hazard analysis to determine the proper cal/cm². If the results of the calculations exceed the cal/cm² that correspond to the HRC found on this guide, you must use clothing that complies with the calculation.

Panelboards Rated 240 V and Below - Notes 1 and 3				600 V Class Switchgear (with power circuit breakers or fused switches) - Notes 5 and 6				NEMA E2 (fused contactor) Motor Starters, 2.3 kV through 7.2 kV			
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
Circuit Breaker (CB) or fused switch operation with covers on			0	CB or fused switch operation with enclosure doors closed			0	Contactor operation with enclosure doors closed			0
CB or fused switch operation with covers off			0	Reading a panel meter while operating a meter switch			0	Reading a panel meter while operating a meter switch			0
Opening hinged covers (to expose bare, energized parts)			0	Work on control circuits with energized parts 120 V or below, exposed	Y	Y	0	Work on control circuits with energized parts 120 V or below, exposed	Y	Y	0
Removal of bolted covers (to expose bare, energized parts)			1	CB or fused switch operation with enclosure doors open			1	Insertion or removal (racking) of starters from cubicles, doors closed			2
Remove or install CB's or fused switches	Y	Y	1	Insertion or removal (racking) of CB's from cubicles, doors closed			2	Contactor operation with enclosure doors open			2
Work on energized parts, including voltage testing	Y	Y	1	Opening hinged covers (to expose bare, energized parts)			2	Insertion or removal (racking) of starters from cubicles, doors open			3
Panelboards / Switchboards Rated 240 V to 600 V (with molded case or insulated case CB's) - Notes 1 & 3				Application of safety grounds, after voltage test	Y		2	Opening hinged covers (to expose bare, energized parts)	Y		3
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Work on energized parts, including voltage testing	Y	Y	2	Application of safety grounds, after voltage test	Y	Y	3
CB or fused switch operation with covers on			0	Work on control circuits with energized parts >120 V exposed	Y	Y	2	Work on control circuits with energized parts >120 V exposed	Y	Y	3
CB or fused switch operation with covers off			1	Insertion or removal (racking) of CB's from cubicles, doors open			3	Work on energized parts, including voltage testing	Y	Y	3
Work on energized parts, including voltage testing	Y	Y	2	Removal of bolted covers (to expose bare, energized parts)			3	Removal of bolted covers (to expose bare, energized parts)			4
600 V Class Motor Control Centers (MCC's) - Notes 2 (except as indicated) and 3				Other 600 V Class (277 V to 600 V, nominal) Equipment - Lighting or small power transformers (600V Max) - Note 3				Metal Clad Switchgear, 1 kV and Above			
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
CB or fused switch or starter operation with enclosure doors closed			0	Opening hinged covers (to expose bare, energized parts)			1	Reading a panel meter while operating a meter switch			0
Reading a panel meter while operating a meter switch			0	Removal of bolted covers (to expose bare, energized parts)			2	CB or fused switch operation with enclosure doors closed			2
Work on control circuits with energized parts 120 V or below, exposed	Y	Y	0	Application of safety grounds, after voltage test	Y		2	Work on control circuits with energized parts 120 V or below, exposed	Y	Y	2
CB or fused switch or starter operation with enclosure doors open			1	Work on energized parts, including voltage testing	Y	Y	2	Opening hinged covers (to expose bare, energized parts)			3
Opening hinged covers (to expose bare, energized parts)			1	Other 600 V Class (277 V to 600 V, Nom.) Equip - Revenue meters (kWH at primary voltage & current) - Note 3				CB or fused switch operation with enclosure doors open			4
Removal of bolted covers (to expose bare, energized parts)			2	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Insertion or removal (racking) of CB's from cubicles, doors open			4
Application of safety grounds, after voltage test	Y		2	Cable trough or tray cover removal or installation			1	Removal of bolted covers (to expose bare, energized parts)			4
Work on energized parts, including voltage testing	Y	Y	2	Miscellaneous equipment cover removal or installation			1	Opening voltage transformer or control power transformer compartments			4
Work on control circuits with energized parts >120 V exposed	Y	Y	2	Application of safety grounds, after voltage test	Y		2	Application of safety grounds, after voltage test	Y		4
Insertion or removal of individual starter "buckets" from MCC - Note 4	Y		3	Insertion or removal	Y		2	Work on energized parts, including voltage testing	Y	Y	4
				Work on energized parts, including voltage testing	Y	Y	2	Work on control circuits with energized parts >120 V exposed	Y	Y	4
Minimum Clothing Requirements				Other Equipment 1 kV and Above - Metal clad load interrupter switches, fused or unfused							
HRC	Protective Clothing	Minimum Cal/cm ²	PPE (Safety glasses, hearing protection, leather safety shoes required for all)								
0	Natural fiber long-sleeved shirt and pants	N/A		TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Switch operation, doors closed			2
1	FR Long-sleeved shirt and pants or FR coveralls	4	Hard Hat, Arc-Rated Face Shield	Outdoor disconnect switch operation (gang-operated, from grade)			2	Insulated cable exam, in open area	Y		2
2	FR Long-sleeved shirt and pants or FR coveralls	8	Hard Hat, Arc-Rated Face Shield and 8 cal/cm ² Stocking Hood or Multi-Layer Switching Hood	Opening hinged covers (to expose bare, energized parts)			3	Outdoor disconnect switch operation (hookstick operated)	Y	Y	3
3	Natural fiber short sleeved shirt and long pants and Arc Rated (25 cal) Arc Flash Suit Jacket and Bib Overalls / Coveralls / 50" Coat with Leggings with Switching Hood	25	Hard Hat, Multi-Layer Switching Hood	Removal of bolted covers (to expose bare, energized parts)			4	Insulated cable examination, in manhole or other confined space	Y		4
4	Natural fiber short sleeved shirt and long pants and Arc Rated (40 cal) Arc Flash Suit Jacket and Bib Overalls / Coveralls / 50" Coat with Leggings with Switching Hood	40	Hard Hat, Multi-Layer Switching Hood	Work on energized parts, including voltage testing	Y	Y	4				
* If the notes cannot be satisfied, work must be performed de-energized.				Definitions: Y=Yes (Required)							
Note 1 Maximum of 25 kA short circuit current available, 0.03 second (2 cycle) fault clearing time.				V-Rated Gloves : gloves rated and tested for the maximum line-to-line voltage upon which work will be done. Leather protectors must be worn externally if v-rated rubber gloves could be damaged.							
Note 2 Maximum of 65 kA short circuit current available, 0.03 second (2 cycle) fault clearing time.				V-Rated Tools : tools rated and tested for the maximum line-to-line voltage upon which work will be done.							
Note 3 For < 10 kA short circuit current available, the HRC required may be reduced by one category.				HRC : Hazard Risk Category				FR : Flame Resistant			
Note 4 Maximum of 42 kA short circuit current available, 0.33 second (20 cycle) fault clearing time.											
Note 5 Maximum of 35 kA short circuit current available, ≤ 0.5 second (30 cycle) fault clearing time.											
Note 6 For < 25 kA short circuit current available, the HRC required may be reduced by one category.											
*Circuits over 40 cal/cm ² should only be worked de-energized.											
Revised 8-05											

PPE Category level chart NFPA 2012

Category

0

What Personal Protection Equipment (PPE) You Shall Wear:

- [★] Cotton Undergarments
- [★] Long Sleeved Shirt (Natural Fiber)
- [★] Long Pants (Natural Fiber)
- [★] Safety Glasses or Goggles
- [★] Hearing Protection (Inserts)
- [★] Leather Gloves (as needed) or Insulating Gloves w/Protectors



Category

1

Ending at 4 cal/cm²

What Personal Protection Equipment (PPE) You Shall Wear:

- [★] Cotton Undergarments
- [★] Arc Rated Long Sleeved Shirt (or FR Coveralls)
- [★] Arc Rated Long Pants (or FR Coveralls)
- [★] Hard Hat with Arc Rated Face Shield
- [★] Hearing Protection (Inserts)
- [★] Safety Glasses or Goggles
- [★] Leather Gloves or Insulating Gloves w/Protectors
- [★] Leather Shoes (as needed)



Category

2

Ending at 8 cal/cm²

What Personal Protection Equipment (PPE) You Shall Wear:

- [★] Cotton Undergarments
- [★] Short Sleeved "T" Shirt (Natural Fiber)
- [★] Arc Rated (12cal) Arc Flash Hood or Hard Hat with Arc Rated Face Shield w/Sock Balaclava with Coveralls or Jacket & Bibs or 50" Coat with Leggings
- [★] Safety Glasses or Goggles
- [★] Hearing Protection
- [★] Arc Rated Leather Gloves or Insulating Gloves w/Protectors
- [★] Leather Shoes



Category

3

Ending at 25 cal/cm²

What Personal Protection Equipment (PPE) You Shall Wear:

- [★] Cotton Undergarments
- [★] Short Sleeved "T" Shirt (Natural Fiber)
- [★] Arc Rated (25cal) Arc Flash Hood with Coveralls or Jacket & Bibs or 50" Coat with Leggings
- [★] Hard Hat
- [★] Safety Glasses or Goggles
- [★] Hearing Protection
- [★] Arc Rated Leather Gloves or Insulating Gloves w/Protectors
- [★] Leather Shoes



Category

4

Ending at 40 cal/cm²

What Personal Protection Equipment (PPE) You Shall Wear:

- [★] Cotton Undergarments
- [★] Short Sleeved "T" Shirt (Natural Fiber)
- [★] Arc Rated (40cal) Arc Flash Hood with Coveralls or Jacket & Bibs or 50" Coat with Leggings
- [★] Hard Hat
- [★] Safety Glasses or Goggles
- [★] Hearing Protection
- [★] Arc Rated Leather Gloves or Insulating Gloves w/Protectors
- [★] Leather Shoes



WHICH FABRIC IS BEST FOR YOUR APPLICATION?

American Safety Clothing Arc Flash / FR® product line features diversified product offerings with superior protection, in a variety of proven flame-resistant and thermal protective fabrics for a wide range of applications. American Safety Clothing closely follows the continual evolution of both domestic and worldwide resources of flame-resistant and thermally protective fibers and fabrics.

The fabrics we carry meet NFPA 70E & 2112 Standards. Our fabrics are available in Hazard Risk Category (HRC) Level 1, 2, 3, 4.

We carry a wide selection of Arc Flash / FR clothing available in the following variety of proven flame-resistant and thermal protective fabrics:

MILLIKEN AMPLITUDE

88% FR COTTON / 12% HIGH TENACITY NYLON

Nylon's durability meets cotton's comfort. Guaranteed Flame Resistant properties for the life of the garment, it will not melt or drip. Most Popular Applications: Electrical / Industrial / Petrochemical, Oil, Gas & Mining Industries / Foundries & Welding / Wildfire Fighting / Military Use.

POLARTEC® WIND PRO® FR

70% MODACRYLIC / 15% LENZING / 15% RAYON

Fire resistant wind resistant, water repellent, base layer knit that reduces wind chill. Guaranteed Flame Resistant properties for the life of the garment, it will not melt or drip. Most Popular Applications: Electrical / Industrial / Utility Industries / Fire Fighter Station & Workers.

POLARTEC® POWERSHIELD® FR

Face: 88% Cotton / 12% Nylon - Back 70% Modacrylic, 30% Tencel (Rayon)

Permanently flame resistant, blocks 98% of the wind, highly breathable, extremely abrasion resistant, reduction in bulk for comfort while providing warmth without weight. Most Popular Applications: Electrical / Utility Industries / Mining / Petrochemical, Oil, Gas / Fire Fighter Station & Workers.

POLARTEC® POWER DRY® FR

70% MODACRYLIC / 30% RAYON

Permanently flame resistant, superior wicking action, keeps your skin dry when you sweat, highly breathable, dries quickly, comfortable next-to-skin, machine washable. Most Popular Applications: Electrical / Industrial / Utility Industries / Fire Fighter Station & Workers.

TENCATE TECASAFE PLUS™

48% MODACRYLIC / 37% LYOCCELL / 15% PARA ARAMID

Inherently flame resistant protection with the with superior moisture management. Exceeds NFPA 70E HRC2 and NFPA 2112 Performance. Most Popular Application: Electrical / Industrial / Petrochemical & Utility Industries / Petrochemical, Oil, Gas & Mining Industries / Fire Fighter Station & Workers.

TENCATE TECASAFE PLUS KNITS™

48% Protex / 37% LYOCCELL / 15% PARA ARAMID

Inherently flame resistant protection with the with superior moisture management. Exceeds NFPA 70E HRC2 and NFPA 2112 Performance. Most Popular Application: Electrical / Industrial / Petrochemical & Utility Industries / Petrochemical, Oil, Gas & Mining Industries / Fire Fighter Station & Workers.

DUPONT NOMEX® IIIA

93% BLEND OF NOMEX® / 5% KEVLAR® / 2% P140 FIBERS

Inherently flame resistant protection with the with superior moisture management. Exceeds NFPA 70E HRC2 and NFPA 2112 Performance. Most Popular Application: Petrochemical, Utilities & Electrical Industries / Fire Fighter Station & Workers / Military Use / Auto Racing.

DUPONT PROTERA®

65% MODACRYLIC / 35% NOMEX® TYPE 450 & KEVLAR 964

Breathable & durable inherent flame resistant protection. Exceeds NFPA 70E HRC2 and NFPA 2112 Performance. Most Popular Application: Petrochemical, & Electrical Industries / Fire Fighter Station & Workers.

SPRINGFIELD FR DENIM 120™

65% MODACRYLIC / 35% NOMEX®

Cool & comfortable inherent flame resistant protection. Exceeds NFPA 70E HRC2 and NFPA 2112 Performance. Most Popular Application: Electrical / Industrial / Utility Industries / Petrochemical, Oil, Gas & Mining Industries / Fire Fighter Station & Workers.

NF ARC™

Para-Aramid / OPF / Novoloid (Phenolic)

Inherent flame resistant, NF Arc fabrics are the lightest weight available on the market. Exceeds NFPA 70E HRC2 performance. Most Popular Application: Electrical / Industrial / Utility Industries / Mining Industries.

ARCWELD™

60% Lenzing FR® / 40% Twaron®

Inherent flame resistant electric arc and welding spatter protective garments, durable, high strength, high performance FR fabric that adds value without compromising comfort. Exceeds NFPA 70E HRC2 and Level 2 Cut Protection (ASTM 1790-2005). Most Popular Application: Electrical / Industrial / Petrochemical, Oil, Gas & Mining Industries / Foundries & Welding / Chemical Plants

OUTLAST® FR SILK WEIGHT JERSEY

4.5 oz. Modacrylic Blend

Inherently flame resistant per ASTM D6413.99 "Flame Resistance of Textiles (Vertical)" base layer garments bring you the ultimate in moisture management and temperature regulation through proactive heat management. Most Popular Application: Electrical / Industrial / Petrochemical, Oil, Gas & Mining Industries / Foundries & Welding / Chemical Plants

SIZING CHART

(All jackets, coats, cape sleeves, liners)

Your Normal Size	Coat Size	Chest
34-36"	S	44"
38-40"	M	48"
42-44"	L	52"
46-48"	XL	56"
50-52"	2XL	60"
54-56"	3XL	64"
58-60"	4XL	68"
62-64"	5XL	72"

(All Bib Overalls)

Your Waist	Overall Sz.	Cut Sz.	Inseam
28-30"	S	34"	28"
32-34"	M	38"	29"
36-38"	L	42"	30"
40-42"	XL	46"	30"
44-46"	2XL	50"	30"
48-50"	3XL	54"	30"
52-54"	4XL	58"	30"
56-58"	5XL	62"	30"

(All Coveralls)

Your Normal Size	Coverall Size	Chest
30-32"	XS	36"
34-36"	S	40"
38-40"	M	44"
42-44"	L	48"
46-48"	XL	52"
50-52"	2XL	56"
54-56"	3XL	60"
58-60"	4XL	64"
62-64"	5XL	68"

Short (5'2"-5'6") sleeve 30", trunk 28", Inseam 28"
 Regular (5'7"-5'11") sleeve 32", trunk 30", Inseam 30"
 Tall (6'0"-6'2") sleeve 34", trunk 32", Inseam 32"
 Extra Tall (6'3"-6'5") sleeve 36", trunk 34", Inseam 34"

Aluminized Pant, Chaps & Hip Legging Sizing:

Small (32-34") Medium (36-38") Large (40-42")
 XLarge (44-46") 2XL (48-50") 3XL (52-54") 4XL (56-58")
 5XL (60-62")

Pant (standard inseam 30") Chap & Hi Legging (outseam 39")

NFPA 70E (2012 Edition)

Mandatory Compliance (key points)

- *Employer must perform a flash hazard analysis & determine flash protection boundary distance
- *Within these boundaries workers must wear AR apparel that corresponds to the identified Hazard Risk Category (HRC Level)


OSHA 29 CFR 1910.269

All garments have been tested and met ASTM 1506F (not contributing to burn severity) are in compliance with 29 CFR 1910.269 (ASTM 1910.269 CFR) Electrical Power Generation, Transmission and Distribution.

Look for these Symbols on each type of clothing offered:

 **NFPA 70E Qualified**

 **Made in the USA**

 **NFPA 2112 Compliant**

 **Meets Hazardous Risk Category 1 (4 Cal)**

 **Meets Hazardous Risk Category 2 (8 Cal)**

 **Meets Hazardous Risk Category 3 (25 Cal)**

 **Meets Hazardous Risk Category 4 (40 Cal)**

 **Flame Resistant**

 **Arc Rated**

 **Canadian Electrical Safety Standard**

LIABILITY STATEMENT

American Safety Clothing warrants all products only against defects in manufacture. Applications vary and therefore no usage warranty is implied. Thus we suggest the end user conduct their own test to determine safety requirements for each article of apparel. Ultimately it is the buyers responsibility and liability to determine that each article meets a protection level deemed suitable for each application.

For years American Safety Clothing has been a leader in the custom apparel market. American Safety Clothing is confident that with our quality, pricing, quick lead times and field sales support we can provide a strong "partnership" with our valued distributors. Call us at 800-827-1204 for assistance or to determine the field sales representative in your area. You may also find us at www.americansafetyclothingmfg.com

FR WINDPRO® SWEATSHIRTS

Materials

Polartec Windpro® FR

American Safety Clothing's new inherent fleece sweatshirts using Polartec Windpro® FR fabric is 4-times more wind resistant than traditional fleece. The fabric provides warmth, outstanding breathability, lightweight comfort and water repellency.

- *Inherently Flame Resistant - FR Properties are built in, and won't wash or wear out
- *Will not melt or drip on the skin when exposed to flame
- *Four times more wind-resistant than traditional fleece
- *Warmth without weight
- *Highly breathable
- *Water-repellent surface sheds rain and snow

Colors

Navy
Orange

Fabric Weight

12.5 oz/yd²

Electric Arc

Rating 9.2 cal/cm²

Sizes Available :

Regular Small to 9XL



**FR Windpro® Fleece
Crewneck Sweatshirt**



For superior warmth and comfort ASC can add a Polartec FR Thermal Fleece inner liner to any sweatshirt shown.



**FR Windpro® Fleece
Hooded Sweatshirt**



**FR Windpro Fleece
Full Zip Hooded Sweatshirt**

FR INHERENT T-SHIRTS



FR Long Sleeve Shirt



FR Henley Long Sleeve Shirt

Materials:

Tecasafe™ SP Inherent Knit

Inherent Knit T-shirts

American Safety Clothing's new inherent shirts using TenCate Tecasafe Plus™ Knits demonstrates that you don't have to sacrifice comfort for protection. These shirts provide comfort durability and protection and are currently being used by electrical and petroleum workers.

- * Inherently Flame Resistant - FR Properties are built in, and won't wash or wear out
- * Comfortable to wear - Soft and breathable with superior moisture management
- * Outstanding laundered appearance - First FR knit on the market engineered for industrial laundering. Retains strength, shape and color after repeated launderings.
- * Excellent Value - Long life cycle and competitive price means lower cost per wear.

Colors:

Navy
Khaki
Gray

Fabric Weight

6.7 oz/yd²

Electric Arc Rating

8.2 cal/cm²

Sizes Available :

Regular Small to 9XL



FR Polo Long Sleeve Shirt



Most American Safety Clothing garments may be embroidered. Contact ASC Sales or Customer Service for details.

FR HIGH VIS

HIGH VIS T-SHIRT AND VEST

Materials

Polartec® Power Dry® FR

American Safety Clothing's new inherent hi-vis shirts and vest using Polartec's® Power Dry® FR fabric demonstrates that you don't have to sacrifice comfort for protection. These shirts provide comfort durability and protection.

- * Inherently Flame Resistant FR Properties are built in, and won't wash or wear out
- * Comfortable to wear - Soft and breathable with superior moisture management
- * Keeps your skin dry when you sweat
- * Dries quickly
- * Outstanding laundered appearance
- * Excellent Value - Long life cycle and competitive price means lower cost per wear.

Colors

Hi Vis Yellow



Fabric Weight

8.7 oz/yd²

Electric Arc Rating

8.1 cal/cm²



OUTLAST® FR LONG/SHORT SLEEVE SHIRT

Materials

Outlast® FR

American Safety Clothing's new inherent FR base layer shirts bring you the ultimate in moisture management and temperature regulation through proactive heat management

- * Inherently Flame Resistant - FR Properties are built in, and won't wash or wear out
- * Manages heat to control moisture
- * Works to control skin temperature and reduce perspiration
- * Proactive heat management, not reactive wicking

Colors

Navy
Khaki
Black

Fabric Weight

4.5 oz/yd²

Sizes Available :

Regular Small to 9XL



BASE LAYER

Not too hot, not too cold®

DAILYWEAR SHIRTS/WORK PANTS

Materials

Tecasafe Plus™

Our shirts and pants using TenCate Tecasafe Plus™ are comfortable, lightweight with inherent heat and flame resistant properties. NFPA 70 E HRC 2 compliant and NFPA 2112 certified, they provide durable and affordable electric arc protection to electricians, electrical contractors, and flash fire protection for workers in the petroleum petrochemical, fire service and other professionals with potential exposure to arc flash / flash fire.

- *50% less body burn than comparable inherently FR fabrics
- *Lab testing shows a wear life twice that of FR treated cotton. The protection, strength and durability are built in.
- * Inherently Flame Resistant - FR Properties are built in, and won't wash or wear out
- *Comfortable to wear - Soft and breathable with superior moisture management
- *Outstanding laundered appearance - Fabric retains its like-new look and maintains permanent pressed appearance better than other protective fabrics First FR knit on the market and engineered for industrial laundering. Retains strength, shape and color after repeated launderings.
- *Excellent Value - Long life cycle and competitive price means lower cost per wear.

Colors

Navy
 Khaki
 Orange
 Light Blue
 Royal Blue
 Red
 Hi Viz Yellow



Fabric Weight

7 oz/yd²

Electric Arc Rating

8 cal/cm²

FR Carpenter Work Pants



Most garments may be ordered with HI-Vis/
 Reflective Striping.

FR Work Shirt



FR Work Pants

WORK PANTS/JEANS

Materials

FR Denim 120™

ASC's Denim Jeans provides electric arc protection in a comfortable denim fabric that wears like your favorite jeans. It has the pre-washed look and feel of traditional denim. This is a denim that doesn't require "breaking-in". In fact, the color can be lightened from traditional indigo-dyed denim to a stone-washed finish, depending on your preference.

In chemically treated denim, FR protection can wear away over time and may lose FR properties completely when laundered with bleach or other chemicals. Unlike denim fabric that has been chemically treated, the flame resistant properties inherent in Springfield FR Denim 120™ will never wear or wash out. Plus, this tough denim will keep you cool and comfortable.

- * Inherently Flame Resistant - FR Properties are built in, and won't wash or wear out
- * Comfortable to wear - Soft and breathable with superior moisture management
- * Pre-washed look and feel of traditional, indigo-dyed, durable cotton denim. Minimal shrinkage after multiple washings
- * Excellent Value - Long life cycle and competitive price means lower cost per wear.

Sizes Available :
Regular Small to 9XL

Fabric Weight
12oz/yd²

Electric Arc Rating
14.2 cal/cm²



FR Work Jeans



FR Carpenter Work Jeans

FYI

Inherent Flame Resistant fabric – as it relates to flame resistant clothing, means that the flame resistant properties were created at the moment the actual fiber was spun resulting in a permanent flame resistant quality being built right into the fibers in the fabric. The resistance to flame is a fundamental (inherent) characteristic or quality of the fabric. This process is permanent, and cannot be washed or worn out of the fiber no matter how the garment is used or laundered.

FR COVERALLS

Materials

Tecasafe Plus™

Our FR Coveralls using TenCate Tecasafe Plus are comfortable, lightweight with inherent heat and flame resistant properties. NFPA 70 E HRC 2 compliant and NFPA 2112 certified, they provide durable and affordable electric arc protection to electricians, electrical contractors, and flash fire protection for workers in the petroleum petrochemical, fire service and other professionals with potential exposure to arc flash / flash fire.

- * 50% less body burn than comparable inherently FR fabrics
- * Lab testing shows a wear life twice that of FR treated cotton. The protection, strength and durability are built in.
- * Inherently Flame Resistant - FR Properties are built in, and won't wash or wear out
- * Comfortable to wear - Soft and breathable with superior moisture management
- * Outstanding laundered appearance - First FR knit on the market engineered for industrial laundering. Retains strength, shape and color after repeated launderings.
- * Excellent Value - Long life cycle and competitive price means lower cost per wear.

Colors

Navy
 Khaki
 Orange
 Light Blue
 Royal Blue
 Red
 Hi Viz Yellow

Fabric Weight

7 oz/yd2

Electric Arc Rating

8 cal/cm2

Sizes Available:

Regular Small to 9XL



Other Fabrics available include for these clothes include:

Nomex IIIA 4.5 oz or 6.0 oz Fabric

Colors: Navy, Red, Orange



Milliken Amplitude 7 oz and 9 oz 88% FR Cotton 12% Nylon

Colors: Navy



FR Basic Coverall

Zipper Front Closure
 Hook and Loop Wrist Closure



FR 7 Pocket FR Coverall

Basic Coverall with 2 chest and rear patch pockets,
 2 front inseam pockets
 1 Tool pocket on Leg



FR 9 Pocket Coverall

(Hi-Vis FR Stripping Optional)

Basic Coverall with 2 chest and rear patch pockets, 2 front inseam pockets
 1 Tool pocket on Leg &
 2 front pass through pockets

FACE SHIELDS

ASC's Ultimate Arc Flash Head Protection

Premium Polycarbonate Arc Shields

Nanoparticle Design
 Improved outdoor exposure and life
 Warp resistant in hot conditions (Car Trunk in the Summer of Phoenix)
 High Impact
 Low Haze
 High Visibility
 Improved Color Recognition
 Direct Replacement for existing Arc Shields in the Field
 Abrasion Resistant on both sides (Long Product Life, estimated at 4x)
 Anti-Fog on both sides (Go from Cold to Warm Humid conditions without fogging)
 Anti-Fog is a permanent coating

Balaclava (Sock Hood)

Offers 360 degree head and neck protection when used with a arc shield.

11 cal/cm² Arc Knit Hood - White (Special Order Blue)
 24 cal/cm² Arc Knit Hood

Arc Flash Premium Complete Shield Kit

12 CAL Premium Arc Shield with Hard Hat - Clip System
 11 CAL Balaclava
 Safety Glasses
 Shield Bag



12 CAL Premium Arc Shield - Clip System



12 CAL Premium Arc Shield - Full Brim Banding System



Shield Bag- Cotton Flannel with Drawstring



Arc Rated Ear Plugs

8 CAL CLOTHING / KITS

Individual 8 CAL Clothing:

32" Jacket
Bib Overall
50" Lab Coat
Flash Coverall
Leggings
Jacket with hood
Overpants

Garments feature:

Hook & Loop Front Closure
Hook & Loop Wrist Closure
No Pockets or Metal
12" Leg Opening for easy on and off
30" Inseam

Sizes Available:

Regular Small to 9XL



Arc Flash Personal Protection Equipment 8 CAL Kits

Standard Items In Flash Coverall Kit

Premium Face Shield & Hard Hat
11 CAL Balaclava
Safety Glasses
Shield Bag
8 CAL Coveralls
Standard Black Kit Bag

**12" Leg
Opening for
easy on and off**



Upgrade Options Include

Ear Plugs
Premium Black Kit Bag
Insulating Glove kit

Other Kits Available

Jacket and Bib Overall Kit
Lab Coat Kit

Fabrics available for these clothes include:

Tecasafe™ Inherent 7 oz
Colors: Navy, Red, Orange, Khaki, Royal Blue, Hi-Vis Yellow



Milliken Amplitude 6 oz 88% FR Cotton 12% Nylon
Colors: Navy



12 CAL CLOTHING / KITS

Individual 12 CAL Clothing:

Flash Coverall
32" Jacket
Bib Overall
50" Lab Coat
Leggings
Hooded Jacket
Overpants
Hood

Arc Flash Personal Protection Equipment 12 CAL Kits

Standard Items in Flash Coverall Kit

Premium Face Shield & Hard Hat
11 Cal Balaclava
Safety Glasses
Shield Bag
12 Cal Flash Coverall
Standard Black Kit Bag

Garments Include:

Hook & Loop Front Closure
Hook & Loop Wrist Closure
Expansion back for added comfort
30" Inseam

Upgrade Options Include

Ear Plugs
Premium Black Kit Bag
Hood instead of Shield Kit
Insulating Glove kit

Sizes Available:

Regular Small to 9XL

Other Kits Available

32" Jacket and Bib Overall kit
Lab Coat Kit

Fabrics available for these clothes include:

Dupont Protera

Colors: Navy



Milliken Amplitude 7 oz 88% FR Cotton 12% Nylon

Colors: Navy



**12" Leg
Opening for
easy on and off**



20 CAL CLOTHING / KITS

Individual 20 CAL Clothing

Flash Coverall
32" Jacket
Bib Overall
50" Lab Coat
Leggings
Hood

Arc Flash Personal Protection Equipment 20 CAL Kits

Standard Items In Jacket & Bib Kit

20 CAL Hardhat Faceshield
24 CAL Balaclava
Safety Glasses
Shield Bag
20 CAL 32" Jacket
20 CAL Bib Overall
Standard Black Kit Bag

Upgrade Options Include

Ear Plugs
Premium Black Kit Bag
Insulating Glove kit
20 CAL Hood
Dual Fan Unit on Hood
Front Flash Light

Other Kits Available

Coverall Kit
Lab Coat Kit



Sizes Available:

Regular Small to 9XL

**12" Leg
Opening for
easy on and off**



Fabrics available for these clothes include:
Milliken Amplitude 9 oz 88% FR Cotton 12% Nylon
Colors: Navy



25 CAL CLOTHING / KITS

Individual 25CAL Clothing

Hood
 Flash Coverall
 32" Jacket
 Bib Overall
 50" Lab Coat
 Leggings

Arc Flash Personal Protection Equipment 25 CAL Kits

Standard Items in Jacket and Bib Overall Kit

25 Cal Hood
 25 Cal 32" Jacket
 25 Cal Bib Overall
 Safety Glasses
 Standard Black Kit Bag

Upgrade Options Include

Ear Plugs
 Premium Black Kit Bag
 Dual Fan Unit on Hood
 Front Flash Light
 Insulating Glove kit

Garments Include:

Hook & Loop Wrist Closure
 Dual stage front closure with high temperature
 Plastic zipper on the 25 - 100 cal/cm² jackets
 Expansion back for added comfort
 12" Leg Opening for easy on and off

**12" Leg
 Opening for
 easy on and off**

Other Kits Available

Flash Coverall Kit
 Lab Coat Kit

Sizes Available:

Regular Small to 9XL

Fabrics available for these clothes include:

TenCate Tecasafe Inherent 7 oz (two layers)
 Colors: Navy, Khaki, Red, Royal Blue, Grey



**Dual stage front closure with
 high temperature
 Plastic zipper on the
 25 - 100 cal/cm² jackets**

40 CAL CLOTHING / KITS

Individual 40 CAL Clothing

Hood
 32" Jacket
 Bib Overall
 50" Lab Coat
 Leggings

Standard Items in 32" Jacket and Bib Overall Kit

40 Cal Hood
 40 Cal 32" Jacket
 40 Cal Bib Overall
 Safety Glasses
 Standard Black Kit Bag

Upgrade Options Include

Ear Plugs
 Premium Black Kit Bag
 Dual Fan Unit on Hood
 Front Flash Light
 Insulating Glove Kit

Other Kits Available

Lab Coat Kit

Fabrics available for these clothes include:

TenCate Tecasafe Inherent 7 oz (plus Q9 liner)

Colors: Khaki, Navy, Royal



Milliken Amplitude 9 oz 88% FR Cotton 12% Nylon

Colors: Navy



44 CAL CLOTHING / KITS

Individual 44 CAL Clothings

Hood
 Flash Coverall
 32" Jacket
 Bib Overall
 50" Lab Coat
 Leggings

Standard Items in 44 CAL Jacket and Bib Overall Kit

44 Cal Hood
 44 Cal 32" Jacket
 44 Cal Bib Overall
 Safety Glasses
 Standard Black Kit Bag

Upgrade Options Include

Ear Plugs
 Premium Black Kit Bag
 Dual Fan Unit on Hood
 Front Flash Light

Other Kits Available

Lab Coat Kit

Coverall Kit

Fabrics available for these clothes include:

NF Arc



**Lightest
 HRC 4 Offering
 Available
 11 oz
 per yard**



57 CAL CLOTHING / KITS

Individual 57 CAL Clothing

Hood
32" Jacket
Bib Overall

Fabrics available for these clothes include:
NF Arc



Standard Items In Kit

57 Cal Hood
57 Cal 32" Jacket
57 Cal Bib Overall
Safety Glasses
Standard Black Kit Bag

Upgrade Options Include

Ear Plugs
Premium Black Kit Bag
Dual Fan Unit on Hood
Front Flash Light



74 CAL CLOTHING / KITS

Individual 74 CAL Clothing

Hood
32" Jacket
Bib Overall

100 CAL Kits available upon request

Fabrics available for these clothes include:
NF Arc



Standard Items In Kit

74 Cal Hood
74 Cal 32" Jacket
74 Cal Bib Overall
Safety Glasses
Standard Black Kit Bag

Upgrade Options Include

Ear Plugs
Premium Black Kit Bag
Dual Fan Unit on Hood
Front Flash Light



FRESH AIR HOOD OPTION

New lightweight dual fan system creates greater air movement with less neck fatigue!

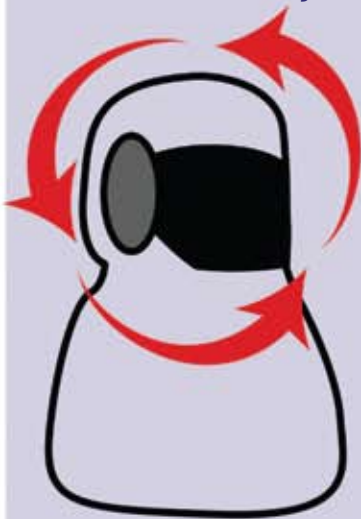
ASC's Dual Air System uses two 9-volt batteries and the fans are attached with FR hook and loop for ease of removal.

This innovative Hood provides a gentle and quiet breeze that keeps the worker cool and decreases hazardous effects of lens fogging. The hood is engineered to prevent neck fatigue with its lightweight dual fan system design.

Note: ARC Fresh Hoods with internal fans are not NOISH approved and are not intended to be used as a respirator. The fan is intended to provide additional comfort for the user.



ASC's Dual Air System Features:



Overview

The Hood is designed with removable internal fans to keep you cool and to decrease lens fogging.

Benefit

Reduces heat stress by allowing air to circulate for a cooler, more comfortable work atmosphere.

Protection

Level 2 - Level 4

ASC12-Fan
ASC20-Fan
ASC25-Fan
ASC40-Fan
ASC57-Fan
ASC74-Fan
ASC100-Fan

ARC FLASH ACCESSORIES

Delux Hard-bottom Kit Bag



24"x10"x18"

Standard Kit Bag



24"x18"x12"

Neck Shade



American Safety Clothing's FR high visibility mesh Neck Shade (5 Cal/cm² - HRC 1) is designed to give FR protection for those working outside and in need of protection from the sun. Great for anyone working in buckets or near energized power lines.

ASC NS



15 KA Blanket 40 KA Blanket

The Arc Suppression Blanket is used as a barrier for protection from the explosive and incendiary effects of electrical arcs and flashes generated by the operation of switch gear, circuit breakers, and lighting arrestors. These blankets can also be used for worker protection in underground vaults, switchyards, and other locations where electrical equipment poses a risk of exposure to explosive electrical discharges.



- 15 KA Arc Suppression Blankets 48" x 60"
- 15 KA Arc Suppression Blankets 48" x 96"
- 40 KA Arc Suppression Blankets 48" x 60"
- 40 KA Arc Suppression Blankets 48" x 96"

COOLING VEST

ASC's New FRPC Cooling Vest

ASC's New FRPC Cooling Vests incorporate 8 CAL FR Fabric for maximum FR value and features over the shoulder and side strap adjustability. Additionally they include a heavy duty front zipper for easy on / off wear. FRPC Cooling Vests provide the user with the maximum comfort available in the market today. They maintain a cool and constant body temperature for up to 2 1/2 hours, weigh less than 3 lbs., and recharge in minutes.

The FRPC Cooling vest utilizes Outlast® new Gel Flow ColdPacks. These lightweight vest provide the following.



Benefits

- Outlast® Gel-Flow™ ColdPacks™ in FR Cool Vests buffer high environmental temperatures to reduce physiological overload, improve performance, reduce fatigue, & provide protection against heat-stress
- Outlast® Gel-Flow™ features Micro-encapsulated phase change material (mPCM) that remains soft & pliable for better fit & comfort, even when cooled below freezing ... unlike solid PCM cold packs.
- No danger of frostbite ... unlike cooling packets that use water-ice

Features

- Heat-sealed Outlast® ColdPacks™ contain non-toxic Gel-Flow™
- Non-leaking ColdPack™ covers are made of tough 6 mil nylon film
- Cooling effect lasts 2 to 3 hours on a charge, keeping average skin temperature 3°F lower than non-PCM packs
- Physical: Outlast® ColdPacks measure 4.25" x 6" x .75", and weigh 7.35 oz each



Thin, lightweight, Powerful performance



Insulated Tools

for Live Line Working



 **AMERICAN**
SAFETY CLOTHING, INC.

Insulated Tools for Live Line Working

Welcome to the latest edition of our catalogue which features some new products plus redesigned screwdriver handles which we have adopted for all screwdriver type products.

This handle brings these tools into the 21st century and we are sure you will agree that they are easier and more comfortable to use.

However if you have a preference for the Engineers' or Cabinet Handle Screwdriver we can of course still oblige.



New Catalogue ► New Products ► New Benefits

Our Company History

Over forty years ago, the then nationalised Area Electricity Boards, were experiencing problems in obtaining hand tools insulated to a high enough standard. To this end, senior engineers and safety officers from the Boards set up a working group to look into their requirements and to establish a specification that all tools needed to meet before they could be considered safe for live line working.

The group, which included the founder of our company, researched the basic tools that would be required and all aspects that needed to be covered in relation to insulating these tools.

The outcome of this work was the initial ESI 26-3 specification, which stated that **all tools must be able to pass an electrical test of 10,000 volts for 3 minutes whilst submerged in water.**

The material must be able to function at temperatures from -20°C to $+70^{\circ}\text{C}$, the material must also be able to withstand impact, be flame retardant, have a good adhesion to the tool and also have the minimum moisture retention.

This specification has now been superseded by the International IEC 60900, of which IEC 60900:2004 is the current version.

Basically this specification is identical to the ESI 26-3.

Although PVC will meet the requirements of these tests, the members of the committee all agreed that the material **Nylon 11 was by far the best option**, in that it more than met the above requirements, plus it is a much harder wearing material and will withstand the rigours of being out in the field longer. This not only makes the tools more cost effective, but also gives the operator that essential protection for longer.



Insulated Tool Kits for *Live Line Working*

Code No.	Description
00010	9pc Screwdriver Kit
01880	3" Insulated Screwdriver 3/16" (5mm)
01890	6" Insulated Screwdriver 3/16" (5mm)
01910	8" Insulated Screwdriver 3/16" (5mm)
02010	No.1 Phillips 3" blade
02020	No.2 Phillips 4" blade
02030	No.3 Phillips 6" blade
01930	4" Insulated Screwdriver 1/4" (6.5mm)
01940	6" Insulated Screwdriver 5/16" (8mm)
01970	10" Insulated Screwdriver 3/8" (10mm)
03190	Tool Roll 8 Pockets



Code No.	Description
00001	Basic Electricians Kit (9 pce in Tool Roll)
00045	9" Linesman Plier
00061	8" L.N.Pliers
00111	7 1/2 Diag.Cutters
00170	6" Wire Stripper
01880	3" Elect. Screwdriver 3/16 (5mm)
01890	6" Insulated Screwdriver 3/16" (5mm)
01920	6" with 1/4 (6mm)
02010	No.1 Phillips 3" blade
02020	No.2 Phillips 4" blade
03190	Tool Roll 8 Pockets



Code No.	Description
00003	Electricians Robertson Kit (9 pce in Tool Roll)
00045	9" Linesman Plier
00061	8" L.N.Pliers
00111	7 1/2 Diag.Cutters
00170	6" Wire Stripper
01880	3" Elect. Screwdriver 3/16 (5mm)
01890	6" Elect. Screwdriver 3/126 (5mm)
01920	6" with 1/4 (6mm)
02024	Robertson #1 x 4"
02025	Robertson #2x 4"
03190	Tool Roll 8 Pockets



Code No.	Description
00008	12pc General Utility Kit
00045	9" Linesman Plier
00061	8" L.N.Pliers
00115	High Leverage Diagonal Cutting Nippers
01930	4" Insulated Screwdriver 1/4" (6.5mm)
01940	6" Insulated Screwdriver 5/16" (8mm)
01970	10" Insulated Screwdriver 3/8" (10mm)
02010	No.1 Phillips 3" blade
02020	No.2 Phillips 4" blade
02030	No.3 Phillips 6" blade
00141	10" Water Pump Plier
00125	Cable Cutter 9"
01830	Cable Jointers Coring Knife 7"
03200	Tool Case (19" x 14" x 6")



Code No.	Description
00009	8pc Principle Kit
00045	9" Linesman Plier
00061	8" L.N.Pliers
00115	High Leverage Diagonal Cutting Nippers
01930	4" Insulated Screwdriver 1/4" (6.5mm)
01890	6" Insulated Screwdriver 3/16" (5mm)
02020	No.2 Phillips 4" blade
00125	Cable Cutter 9"
00170	6" Wire Stripper
03190	Tool Roll 8 Pockets



Code No.	Description
02295	7pc Nut Driver Kit
02305	3/16" Nut Driver - 1" (25mm) Clearance
02315	1/4" Nut Driver - 1" (25mm) Stud Clearance
02331	5/16" Nut Driver - 1" (25mm) Stud Clearance
02332	11/32 A/F Nut Driver (Spinner) - 1" (25mm) Stud Clearance
02333	3/8 A/F Nut Driver (Spinner) - 1" (25mm) Stud Clearance
02334	7/16 A/F Nut Driver (Spinner) - 1" (25mm) Stud Clearance
02335	1/2 A/F Nut Driver (Spinner) - 1" (25mm) Stud Clearance
03190	Tool Roll 8 Pockets



Insulated Tool Kits for Live Line Working



Code No	Description
00002	Deluxe Tool Kit (20 pce in Orange Tool Case)
01860	3" Terminal Screwdriver 1/8" (3mm)
01890	6" Insulated Screwdriver 3/16" (5mm)
01920	6" Elec. Screwdriver 1/4" (6mm)
02010	No.1 Phillips Screwdriver
02020	No.2 Phillips Screwdriver
00021	8" Combination pliers
00051	6" Snipe Nose Pliers
00120	8" Cable Cutter
00101	6" Diagonal Cutters
00141	10" G.J. Pliers
01830	C.J. Coring Knife 7"
03000	8" Adjustable Wrench
00300	1/2" O/E Wrench
00340	11/16" O/E Wrench
00360	3/4" O/E Wrench
00410	1" O/E Wrench
01080	1/2" Ring Wrench
01090	11/16" Ring Wrench
01100	3/4" Ring Wrench
03005	Tool Case (Orange)

Code No.	Description
00005	General Purpose Tool Kit (9 pce in Tool Roll)
01860	3" Terminal Screwdriver 1/8" (3mm)
01890	6" Insulated Screwdriver 3/16" (5mm)
01920	6" Elec. Screwdriver 1/4" (6mm)
02010	No.1 Phillips Screwdriver
02020	No.2 Phillips Screwdriver
00021	8" Combination Pliers
00051	6" Snipe Nose Pliers
00120	8" Cable Cutter
03000	8" Adjustable Wrench
03191	Tool Roll 12 pocket

Code No.	Description
00006	General Purpose Tool Kit (9 pce in Tool Roll)
01860	3" Terminal Screwdriver 1/8" (3mm)
01890	6" Insulated Screwdriver 3/16" (5mm)
01920	6" Elec. Screwdriver 1/4" (6mm)
01940	6" Insulated Screwdriver 5/16" (8mm)
02010	No.1 Phillips Screwdriver
02020	No.2 Phillips Screwdriver
00011	6" Combination Pliers
00051	6" Snipe Nose Pliers
03000	8" Adjustable Spanner
03191	Tool Roll 12 pocket





Code No.	Description
00007	29 pc General Purpose Tool Kit
00021	8" Engineers Combination Pliers
00101	6" Diagonal Cutting Nippers
00061	8" Long Snipe Nose Pliers
01830	Cable Jointers Coring Knife 7"
01860	3" Terminal Screwdriver 1/8" (3mm)
01875	3" Electricians Screwdriver 5/32" (4mm)
01890	6" Insulated Screwdriver 3/16" (5mm)
01940	6" Insulated Screwdriver 5/16" (8mm)
02010	No.1 Phillips Screwdriver (75mm Blade Length)
02020	No.2 Phillips Screwdriver (4" Blade Length)
01750	Reversible Ratchet Handle (1/2" Sq. Dr.)
01760	5" Extension Bar (1/2" Sq. Dr.)
01770	10" Extension Bar (1/2" Sq. Dr.)
01350	10mm Insulated Socket (1/2" Sq. Dr.)
01360	11mm Insulated Socket (1/2" Sq. Dr.)
01370	12mm Insulated Socket (1/2" Sq. Dr.)
01380	13mm Insulated Socket (1/2" Sq. Dr.)
01390	14mm Insulated Socket (1/2" Sq. Dr.)
01420	17mm Insulated Socket (1/2" Sq. Dr.)
01440	19mm Insulated Socket (1/2" Sq. Dr.)
02763	5mm Hexagon Key 1/2 Sq. Dr. Socket
02764	6mm Hexagon Key 1/2 Sq. Dr. Socket
00280	10mm Totally Insulated Open Ended Spanner
00290	11mm Totally Insulated Open Ended Spanner
00295	12mm Totally Insulated Open Ended Spanner
00300	13mm Totally Insulated Open Ended Spanner
00310	14mm Totally Insulated Open Ended Spanner
00340	17mm Totally Insulated Open Ended Spanner
00360	19mm Totally Insulated Open Ended Spanner

Code No.	Description
03095	19pc. 1/2" Dr. AF/Metric Set
01750	Reversible Ratchet Handle (1/2 Sq. Dr.)
01760	5" Extension Bar (1/2" Sq. Dr.)
01770	10" Extension Bar (1/2" Sq. Dr.)
01330	8mm Insulated Socket (1/2" Sq. Dr.)
01350	10mm Insulated Socket (1/2" Sq. Dr.)
01380	13mm Insulated Socket (1/2" Sq. Dr.)
01420	17mm Insulated Socket (1/2" Sq. Dr.)
01440	19mm Insulated Socket (1/2" Sq. Dr.)
01450	20mm Insulated Socket (1/2" Sq. Dr.)
01470	22mm Insulated Socket (1/2" Sq. Dr.)
01500	25mm Insulated Socket (1/2" Sq. Dr.)
01570	3/8 A/F Insulated Socket (1/2" Sq. Dr.)
01580	7/16 A/F Insulated Socket (1/2" Sq. Dr.)
01590	1/2 A/F Insulated Socket (1/2" Sq. Dr.)
01600	9/16 A/F Insulated Socket (1/2" Sq. Dr.)
01630	3/4 A/F Insulated Socket (1/2" Sq. Dr.)
01650	7/8 A/F Insulated Socket (1/2" Sq. Dr.)
01660	15/16 A/F Insulated Socket (1/2" Sq. Dr.)
01670	1" A/F Insulated Socket (1/2" Sq. Dr.)



Code No.	Description
3100	12pc. 1/2" Dr. AF/Metric Set
01750	Reversible Ratchet
01760	5" Extension Bar
01330	8mm Insulated Socket (1/2" Sq. Dr.)
01350	10mm Insulated Socket (1/2" Sq. Dr.)
01380	13mm Insulated Socket (1/2" Sq. Dr.)
01420	17mm Insulated Socket (1/2" Sq. Dr.)
01440	19mm Insulated Socket (1/2" Sq. Dr.)
01450	20mm Insulated Socket (1/2" Sq. Dr.)
01570	3/8 A/F Insulated Socket (1/2" Sq. Dr.)
01590	1/2 A/F Insulated Socket (1/2" Sq. Dr.)
01630	3/4 A/F Insulated Socket (1/2" Sq. Dr.)
01650	7/8 A/F Insulated Socket (1/2" Sq. Dr.)

ALUMINIZED PRIMARY APPAREL

Aluminized clothing, "primary apparel", is your first line of protection from molten metal splash and radiant heat. American Safety Clothings' aluminized apparel is designed for maximum protection and is comfortably sized to fit over general work garments. American Safety Clothing, a leader in the "primary clothing" market, can customize any of the styles shown in this catalog for your specialized needs.



Standard Features Include

- Military style collar
- Raglan sleeves for added mobility
- Covered snap or FR hook and loop closure
- Safety stitched with over lock sewing all seams
- Triple tacked at stress point for longer wear

Optional Features Include

- 2ply Kevlar or Nomex wristlets
- Yoke / vent back
- Vented with FR cotton backs for comfort and affordability
- Kick slits for coats 44" and longer
- Lengths 30" - 52"
- Custom lengths and features are available upon request

Many of our designs (as pictured above) provide for enhanced breathability and user comfort.

Thermal/Application Indicator
Environment and conditions vary. Please consult us for assistance in selecting the appropriate fabric for your specific need.

ALUMINIZED PRIMARY APPAREL



50-03-00-51-18



24-70-00-1236-30



24-16-00-12-94
(w/optional 18" bib)



50-15-00-12-24

FR Wool Coats are an affordable option offering thermal protection in cold weather and offers moderate protection of molten splash.

- 32 oz. Melton Wool
- Covered span closure (FR Hook and Loop available)
- Optional lengths available

26 oz. Zirpro wool available for molten aluminum protection

Aluminumized Cape Sleeves

offer excellent protection from molten metal splash & radiant heat. The optional and detachable 18" long bib extends the life of the garment, plus making replacement in the heavy wear area of the chest economical. Popular for heavy welding or lancing.

- Optional fabrics and bib lengths available

Aluminumized Sleeves offer excellent protection from radiant heat and molten splash for the arm. A variety of fabrics and designs are available.

- 12", 18", and 24" other lengths available
- Standard sleeves come with snap wrist
- Kevlar or Elastic (tip and wrist) closure available
- FR Hook and Loop upper arm cinch available

A variety of Nomex, Lenzing, Kevlar and PBI hoods are available. Shorty's and long bibs are our most popular styles. Face openings include eyes only, full face and slit eye. American Safety Clothing assures quality and affordability that is unmatched in the market today!

NOL11FF



KV21FF

ALUMINIZED PRIMARY APPAREL

Aprons

American Safety Clothing offers a variety of industrial aprons. Bib, split-leg, waist and split-leg waist aprons. Our multiple styles and fabric selection can provide the "custom fit" and function for each work environment. Our aprons are all available with the best lead times & Prices on the market today.

Standard Sizing

24x30 thru 24x48
 30x42 thru 36x48
 Custom sizing is also available

Options

FR cotton, Leather, Kevlar
 A Variety of Aluminized fabrics
 Belly Patches



41-03-00-00-2442

40-15-00-00-2436



21-03-00-12-40

Spats and Leggings

From our short leather and aluminized spats to the FR Velcro and Duo-Wrap (spring style) leggings American Safety Clothing can provide you with the quality, lead times (5-10 days) and affordability you deserve.

14" standard height

Standard Features

Extended 2 Ply boot Flare
 FR Velcro (on Springless styles)
 Forming Bar on all Flares

Options

Jumbo Sizing
 Shin Protection Inserts
 A variety of Fabrics and Lengths



72-03-00-09A-99

72-16-00-1133-99



74-42-00-1234-99



74-15-00-1133-99

Aluminized Coats

Our popular Surgeons Coat provides excellent upper body protection from molten metal and radiant heat. The open back allows for excellent air circulation.

- FR Velcro adjustable belt
- Reinforced stitching with Kevlar thread

Aluminized Hoods

Our hoods offer excellent protection and vision. Each will provide the user with comfort, radiant heat and molten metal splash protection. All hoods include a hard hat (universal kwik clips are available) and are designed to allow for the replacement of the visitors



30-16-00-44-99



30-03-00-47-99



30-15-00-49-99



34-16-00-00-9

Fabric Chart

Aluminized Carbon Kevlar (7oz, 9oz, 14 & 19oz)
 Aluminized Fiberglass & Rayon 16oz
 Aluminized Kevlar 19oz
 Aluminized PBI 7oz
 [Other fabrics available]

Aluminized Pants and Chaps

An ideal choice when used with short coats. Increases overall mobility and protects the legs from molten metal splash and radiant heat.
 - 30" inseam standard



74-16-00-33-99

73-30-00-1260-30

HAND PROTECTION

American Safety Clothing offers a wide selection of gloves that give the protection you need against cuts, radiant heat, sparks and molten metal. Our wide selection of fabrics and liner systems can provide the user with the best wear and thermal protection available. At American Safety Clothing, we design our hand protection to meet the highest safety needs along with the highest level of dexterity possible. All of our gloves are designed for good fit and air circulation (air space is an excellent insulator). Also, our gloves are designed to be "thrown off" in the case of extreme heat emergency.

Our mitts today are the result of many years of experience in protecting workers from high temperature hand exposure. The high temperature protection of hands is one of the most difficult areas to fully protect. Please call us for assistance in determining the mitt that best suits your "personal" needs. At American Safety Clothing, we use only the finest "tested" materials available. All of our mittens and gloves are sewed with a "lock stitch" using Kevlar thread.

80-5714-02-14
(mitt)



85-94-00-71-11
(wire covermitt)



85-10-00-00-09
(9" covermitt)



90-10-10-06-14



98-30-10-00-14



80-10-10-00-14



90-20-13-07-14



80-20-11-07-14



90-10-10-01-14



60-10-00-84-8x8



90-10-10-00-18



91-08-10-25-13

Standard Lengths (Gloves & Mitts)

Fabric Chart

Temp Rating

11', 14", 18" and 23"	Cloth	Temp
	16 oz Alum Rayon	350-450 F
Cover Mitts	19 oz Alum Kevlar	500-600 F
9", 10", 11" and 12"	22 oz Kevlar	500-600 F
	24 oz Terry Kevlar	500-600 F
Standard Liner Fabrics:	22 oz PBI	700-1000 F
10 & 12 oz Wool	14 & 19 oz ACK	700-1000 F
Aramid Felt	26 & 36 oz Vertex	1200-1800 F
Q9 Nomex Batting	Stainless Steel Wire Mesh	1800-2000 F

CAUTION (Thermal Awareness)

It is important to understand that temperatures within specific working environments are affected by ambient air. Also, radiant heat is generated by a heat source such as a furnace. Conductive heat comes directly from contact between the workers hand/body and a hot surface. It is important to understand the temperature range of our fabrics indicates the level in which the fabric will work without breaking down prematurely. It DOES NOT mean it will protect you from conductive or radiant burn. This is where our decades of experience work for you to develop the "Liner System" to further insulate you from such burns. It is also critical to take into account abrasion factors, weight, and the duration of contact with a hot part.

CUT RESISTANT APPAREL



79-12-00-1130-SZ



20-12-00-12-30

20-12-00-12-30
(coat)



With 43-12-00-00-2439
(split leg waist apron
24"x39" outseam)

21-1260-00-12-22
(gown)
(optional snap on waist apron
shown)



22-12-00-16-SZ
(cape sleeve)



72-12-00-1132-99
(legging)

50-KM13-00-87-18



0-12-00-1620-33

Our **New Custom Kevlar** mesh is specifically designed to provide superior cut protection while maintaining breathability and flexibility.

8 oz. Kevlar Twill offers the user lightweight comfort and flexibility. This fabric has superior strength for slash and puncture protection. It is inherently flame retardant and will easily handle light molten splash. With our 30 plus years of experience we can develop a "custom" garment that is comfortable, highly protective and extremely affordable.

For years American Safety Clothing has been manufacturing a wide range of **Cut Resistant Apparel**. With our selection of quality/tested fabrics, quick lead times and affordability American Safety Clothing is the "clear cut" choice.

We offer a popular selection of fabrics: 8 oz Kevlar twill, Ballistic Nylon and our new custom Kevlar mesh (in a variety of weights). All fabrics can be used for coats, coveralls, cape sleeves, surgeon's gowns, aprons and sleeves. Eyelets can be strategically placed to provide superior cut and slash protection.

Sleeve Lengths: 7"- 33"



50-08-00-8730-18



ARC WELD™

ASC offers the only Arc Flash HRC 2 Garments you can WELD in.

ASC's NEW versatile, durable, and comfortable garments made with Arc Weld™ fabric provide:

- . 100% inherent flame resistance that will never wash out or wear out

- . Handle all welding splatter

- . High visability in bright yellow

(ANSI/ISEA 107-2010 compliant)

- . Cut Protection (ASTM 1790-2005)

- . Colors available :

Natural, Hi-Vis Yellow, Brown



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