

THE DIFFERENCE BETWEEN FR AND AR

FLAME RESISTANT (FR)

Flame Resistant garments earn their designation because they are made of fabrics that are inherently resistant to or are treated to be resistant to catching fire when exposed directly to flame. The material will resist ignition and/or self-extinguish when ignited, and they will not melt. FR garments also create a thermal barrier to help protect the wearer's skin when exposed to direct heat energy and may minimize the amount of 2nd and 3rd degree burns incurred. FR fabrics include:

- **Modacrylics, Aramids and Para-aramids** are among the inherently flame resistant fabrics. They will not lose those characteristics through wear or laundering.
- **Treated Fabrics**, such as cotton and cotton blends, require FR treatment to achieve self-extinguishing properties. This treatment will eventually fade with washing but, if the garment is properly cared for, the treatment can last the life of the garment. FR treated cotton and cotton blends provide a more comfortable and affordable solution.

ARC RATED (AR)

Arc Rated (AR) garments help to provide flame and thermal protection from exposure to an electrical arc flash. AR fabrics and garments are designed and treated to help limit the exposure and burn percentage as a result of an electrical arc flash incident.

In 2015, the NFPA introduced the new term "**AR (Arc Rated)**" to help identify the critical difference between AR and FR (Flame Resistant) clothing as it applies to Arc Flash Protection.

Remember: All AR garments are flame resistant, however not all FR garments are rated for arc flash protection.

There are many variables to consider when selecting **AR** protective clothing. Most importantly the employer must perform a **Hazard Risk Analysis** for the workplace to identify risks and set the appropriate boundaries. The results of this analysis will then direct the employer into the level of protection needed.

Each AR garment is given an **Arc Thermal Performance Value (ATPV)** or **Energy Break-open Threshold (EBT)**. This value represents the level of protection the garment is tested to provide when exposed to variable levels of heat in an electric arc flash. Higher levels of protection typically require thicker and/or additional layers. The ATPV or EBT of the garment should be equal to or greater than the energy level of the work area as determined by the Hazard Risk Analysis.

The NFPA 70E should be reviewed thoroughly and regularly to ensure compliance and to be aware of any revisions or updates as they occur.

DUAL CERTIFIED PROTECTION

Dual Certified means that the materials have been tested and certified to meet both the NFPA 70E (Arc Flash Protection) and the NFPA 2112 (Flash Fire Protection) standards. The NFPA 2112-2012 requires third party certification of the garment, and all PIP NFPA 2112-2012 certified garments are UL certified. All PIP Dual-Certified apparel are identified as such.



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FLAME RESISTANT & ARC RATED CLOTHING

AR/FR CLOTHING

SWEATSHIRT

NFPA 70E PPE CATEGORIES

PPE CATEGORY	PROTECTIVE EQUIPMENT	PROTECTIVE CLOTHING	MIN ARC RATING
	<ul style="list-style-type: none"> • Hard hat • Safety glasses or safety goggles (SR) • Hearing protection (ear canal inserts) • Heavy duty leather gloves* • Leather work shoes 	<ul style="list-style-type: none"> • Arc rated long sleeve shirt and pants or arc rated coverall • Arc rated face shield or arc flash suit hood • Arc rated jacket, parka, rainwear or hard hat liner 	4 cal/cm ²
	<ul style="list-style-type: none"> • Hard hat • Safety glasses or safety goggles (SR) • Hearing protection (ear canal inserts) • Heavy duty leather gloves* • Leather work shoes 	<ul style="list-style-type: none"> • Arc rated long sleeve shirt and pants or arc rated coverall • Arc rated face shield and arc rated balaclava or arc flash suit hood • Arc rated jacket, parka, rainwear or hard hat liner 	8 cal/cm ²
	<ul style="list-style-type: none"> • Hard hat • Safety glasses or safety goggles (SR) • Hearing protection (ear canal inserts) • Heavy duty leather gloves* • Leather work shoes 	<ul style="list-style-type: none"> • Arc rated long sleeve shirt • Arc rated pants • Arc rated coverall • Arc rated arc flash suit jacket • Arc rated arc flash suit pants • Arc rated arc flash suit hood • Arc rated gloves • Arc rated jacket, parka, rainwear or hard hat liner 	25 cal/cm ²
	<ul style="list-style-type: none"> • Hard hat • Safety glasses or safety goggles (SR) • Hearing protection (ear canal inserts) • Heavy duty leather gloves* • Leather work shoes 	<ul style="list-style-type: none"> • Arc rated long sleeve shirt • Arc rated pants • Arc rated coverall • Arc rated arc flash suit jacket • Arc rated arc flash suit pants • Arc rated arc flash suit hood • Arc rated gloves • Arc rated jacket, parka, rainwear or hard hat liner 	40 cal/cm ²

* NFPA 70E Table 130.7(C)(16) Note 1 - The combination of rubber insulating gloves and leather protectors satisfies the arc flash protection requirements.

NFPA 70E 2015 NOTABLE CHANGES

When determining which arc rating of PPE is required, the term HRC (Hazard/Risk Category) is now referred to as **"PPE Category."**

The former HRC Level 0 no longer exists. The NFPA now requires arc rated clothing for tasks that were previously identified as **Category 0.**

Arc rated balaclava hoods are required when an individual's head is inside the arc boundary. Arc rated full hoods are required when clothing rated higher than 12 cal/cm² is worn.

ANSI 107 TYPE R CLASS 3 19 CAL PROTECTION




FLAME RESISTANT
SEGMENTED TAPE



+



ARC RATED FLAME RESISTANT HI-VIS BLACK BOTTOM SWEATSHIRT

GARMENT	Hoodie
PPE CATEGORY	2
ARC RATING	19 cal/cm ²
MATERIAL	Modacrylic / FR Cotton
WEIGHT	12 oz. Fleece Knit
POCKETS	3
STANDARD	ANSI 107 Type R Class 3, NFPA 70E, ASTM F1506
CLOSURE	Zipper
REFLECTIVE	2" FR Segmented Heat Applied
SIZE	S - 5X
STYLE NUMBER	COLOR
385-1370FR	 Hi-Vis Lime Yellow / Black



NEXT TO SKIN COMFORT & BREATHABILITY



ARC RATED FLAME RESISTANT SHIRTS (SHORT SLEEVE T-SHIRTS SHOULD BE WORN AS AN UNDERGARMENT ONLY)

STYLE NUMBER	COLOR	GARMENT	PPE CATEGORY	ARC RATING	MATERIAL	WEIGHT	POCKETS	STANDARD	CLOSURE	REFLECTIVE	SIZE
385-FRLS-LG 385-FRLS-NV 385-FRLS-OR	<input type="checkbox"/> Light Gray <input type="checkbox"/> Navy <input type="checkbox"/> Orange	Long Sleeve T-Shirt	2	11 cal/cm ²	100% Cotton	6.5 oz. Knit	1	NFPA 70E, ASTM F1506	Pullover	None	M - 3X
385-FRHN-LG 385-FRHN-NV 385-FRHN-OR	<input type="checkbox"/> Light Gray <input type="checkbox"/> Navy <input type="checkbox"/> Orange	Long Sleeve Henley	2	11 cal/cm ²	100% Cotton	6.5 oz. Knit	1	NFPA 70E, ASTM F1506	Pullover	None	M - 3X
385-FRSS-LG 385-FRSS-NV	<input type="checkbox"/> Light Gray <input type="checkbox"/> Navy	Short Sleeve T-Shirt	2	11 cal/cm ²	100% Cotton	6.5 oz. Knit	1	NFPA 70E, ASTM F1506	Pullover	None	M - 3X
315-1350FR	<input type="checkbox"/> Hi-Vis Lime Yellow	Long Sleeve T-Shirt	2	8.6 cal/cm ²	100% Cotton	8 oz. Knit	1	ANSI 107 Type R Class 3, NFPA 70E, ASTM F1506	Pullover	2" Silver Sewn-On	S - 3X

ARC RATED FLAME RESISTANT SWEATSHIRTS

385-FRPH-NV 385-FRPH-OR	<input type="checkbox"/> Navy <input type="checkbox"/> Orange	Hoodie	2	20 cal/cm ²	100% Cotton	12 oz. Fleece Knit	1	NFPA 70E, ASTM F1506	Pullover	None	M - 3X
385-FRZH-NV 385-FRZH-OR	<input type="checkbox"/> Navy <input type="checkbox"/> Orange	Hoodie	2	20 cal/cm ²	100% Cotton	12 oz. Fleece Knit	2	NFPA 70E, ASTM F1506	Zipper	None	M - 3X

AR/FR CLOTHING

HI-VIS VESTS

RESISTS IGNITION & SELF EXTINGUISHES

TO BE WORN OVER ARC RATED FR CLOTHING **ONLY.**

▼ 305-3000

▼ 305-2000



+



▼ 305-3100

▼ 305-2100

SOLID FABRIC



MESH FABRIC

NO MELT, NO DRIP

ARC RATED FLAME RESISTANT HI-VIS VESTS

STYLE NUMBER	HI-VIS COLOR	ANSI 107	PPE CATEGORY	ARC RATING	MATERIAL	WEIGHT	POCKETS	STANDARD	CLOSURE	REFLECTIVE	SIZE
305-2000	■ Lime Yellow	Type R Class 2	1	5.4 cal/cm ²	Modacrylic	6.2 oz. Woven Solid	0	ANSI 107, NFPA 70E, ASTM F1506	FR Hook & Loop	2" FR Silver Sewn-On	M - 5X
305-3000	■ Lime Yellow	Type R Class 3	1	5.4 cal/cm ²	Modacrylic	6.2 oz. Woven Solid	0	ANSI 107, NFPA 70E, ASTM F1506	FR Hook & Loop	2" FR Silver Sewn-On	M - 5X
305-2100	■ Lime Yellow	Type R Class 2	1	5.1 cal/cm ²	Modacrylic	6.2 oz. Mesh	1	ANSI 107, NFPA 70E, ASTM F1506	FR Hook & Loop	2" FR Silver Sewn-On	M - 5X
305-3100	■ Lime Yellow	Type R Class 3	1	5.1 cal/cm ²	Modacrylic	6.2 oz. Mesh	1	ANSI 107, NFPA 70E, ASTM F1506	FR Hook & Loop	2" FR Silver Sewn-On	M - 5X

FR HOOK AND LOOP CLOSURE & FR REFLECTIVE TAPE AND BINDING

ARC RATED CLOTHING

- ARAMID HIGH TENACITY THREAD
- BAR TACKED AT ALL STRESS POINTS
- ULTRALIGHT STYLES AVAILABLE (*)

ARC RATED FLAME RESISTANT COVERALLS (NFPA 70E, ASTM F1506)*

STYLE NUMBER	COLOR	MATERIAL	PPE CAT.	ARC RATING	POCKETS	CLOSURE	SIZE
9100-2160D	☐ Navy	Cotton / Nylon	2	8 cal/cm ²	2	Hook & Loop	S - 5X
9100-2170D	☐ Navy	Cotton / Nylon	2	12 cal/cm ²	2	Hook & Loop	S - 5X
9100-52772	☐ Navy	Cotton / Nylon	3	25 cal/cm ²	3	Hook & Loop	S - 5X
9100-52758	☐ Navy	Cotton / Nylon	3	33 cal/cm ²	3	Hook & Loop	S - 5X
9100-240ULT	☐ Navy	Protera® / Ultrasoft®	4	40 cal/cm ²	2	Hook & Loop	S - 5X

ARC RATED FLAME RESISTANT OVERALLS (NFPA 70E, ASTM F1506)

9100-52564	☐ Navy	Cotton / Nylon	2	12 cal/cm ²	2	Buckle	S - 5X
9100-21731	☐ Navy	Cotton / Nylon	3	25 cal/cm ²	2	Buckle	S - 5X
9100-53680	☐ Navy	Cotton / Nylon	3	33 cal/cm ²	2	Buckle	S - 5X
9100-52422	☐ Navy	Cotton / Nylon	4	40 cal/cm ²	2	Buckle	S - 5X
9100-75001	☐ Navy	Cotton / Nylon	4	75 cal/cm ²	2	Buckle	S - 5X
9100-53750	☐ Gray	Aramid / Cotton	4	100 cal/cm ²	2	Buckle	M - 2X

ARC RATED FLAME RESISTANT JACKETS (NFPA 70E, ASTM F1506)

9100-21782	☐ Navy	Cotton / Nylon	2	12 cal/cm ²	2	Hook & Loop	S - 5X
9100-21721	☐ Navy	Cotton / Nylon	3	25 cal/cm ²	2	Hook & Loop	S - 5X
9100-52680	☐ Navy	Cotton / Nylon	3	33 cal/cm ²	2	Hook & Loop	S - 5X
9100-52412	☐ Navy	Cotton / Nylon	4	40 cal/cm ²	2	Hook & Loop	S - 5X
9100-524ULT*	☐ Navy	Protera® / Ultrasoft®	4	40 cal/cm ²	2	Hook & Loop	S - 5X
9100-75000	☐ Navy	Cotton / Nylon	4	75 cal/cm ²	2	Hook & Loop	S - 5X
9100-52750	☐ Gray	Aramid / Cotton	4	100 cal/cm ²	2	Hook & Loop	M - 2X

ARC RATED FLAME RESISTANT OVERPANTS (NFPA 70E, ASTM F1506)

9100-22070	☐ Navy	Cotton / Nylon	2	12 cal/cm ²	2	Hook & Loop / Drawstring	S - 5X
9100-530ULT*	☐ Navy	Protera® / Ultrasoft®	4	40 cal/cm ²	4	Hook & Loop / Drawstring	S - 5X

*ADDITIONAL COVERALL STYLES ON FOLLOWING PAGES



DUAL CERTIFIED CLOTHING

SHIRTS / JEANS



DUAL CERTIFIED

DUAL CERTIFIED MEANS THE GARMENT AND MATERIAL HAVE BEEN TESTED AND CERTIFIED BY A THIRD PARTY AND INDICATES COMPLIANCE TO TWO STANDARDS.

NFPA 70E: STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE

NFPA 2112: STANDARD FOR PROTECTION AGAINST FLASH FIRE

385-FRWS



ARC RATED FLAME RESISTANT DUAL CERTIFIED CLOTHING

STYLE NUMBER	COLOR	GARMENT	PPE CATEGORY	ARC RATING	MATERIAL	WEIGHT	POCKETS	STANDARD	CLOSURE	SIZE
385-FRWS-NV 385-FRWS-KH	<input type="checkbox"/> Navy <input type="checkbox"/> Khaki	Button Down	2	8 cal/cm ²	90% Cotton 10% Nylon	7 oz. Woven FR Fabric	2	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Buttons	S - 4X
385-FRRJ	<input checked="" type="checkbox"/> Denim	Relaxed Fit Jeans	2	16 cal/cm ²	100% Cotton Denim Twill	13 oz. Woven FR Fabric	5	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Zipper	Waist: 30-50" Length: 30-36"
385-FRCJ	<input checked="" type="checkbox"/> Denim	Carpenter Jeans	2	16 cal/cm ²	100% Cotton Denim Twill	13 oz. Woven FR Fabric	6	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Zipper	Waist: 30-50" Length: 30-36"

385-FRCJ

DUAL CERTIFIED CLOTHING

COVERALLS



ARC RATED FLAME RESISTANT DUAL CERTIFIED COVERALLS

STYLE NUMBER	COLOR	FEATURE	PPE CATEGORY	ARC RATING	MATERIAL	WEIGHT	POCKETS	STANDARD	CLOSURE	SIZE
385-FRSC-NV 385-FRSC-KH	<input type="checkbox"/> Navy <input type="checkbox"/> Khaki	Multiple Pockets	2	8 cal/cm ²	90% Cotton 10% Nylon	7 oz. Woven FR Fabric	8	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Zipper	S - 5X
9100-2160D	<input type="checkbox"/> Navy	Action Back For Mobility	2	8 cal/cm ²	90% Cotton 10% Nylon	7 oz. Woven FR Fabric	2	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Hook & Loop	S - 5X
9100-2100D	<input type="checkbox"/> Tan	Vented Back For Breathability	2	8 cal/cm ²	90% Cotton 10% Nylon	7 oz. Woven FR Fabric	2	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Hook & Loop	S - 5X
9100-2120D	<input type="checkbox"/> Royal Blue	Vented Back For Breathability	2	8 cal/cm ²	90% Cotton 10% Nylon	7 oz. Woven FR Fabric	2	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Hook & Loop	S - 5X
9100-2110D	<input type="checkbox"/> Tan	Built-In Insect Repellant	2	8 cal/cm ²	90% Cotton 10% Nylon	7 oz. Woven FR Fabric	2	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Hook & Loop	S - 5X
9100-2170D	<input type="checkbox"/> Navy	Action Back For Mobility	2	12 cal/cm ²	90% Cotton 10% Nylon	9 oz. Woven FR Fabric	2	NFPA 70E, ASTM F1506 & NFPA 2112-2012	Hook & Loop	S - 5X

ARC FLASH PROTECTION KITS

KIT FEATURES

ARC KITS INCLUDE:

- 1** CAP STYLE HARD HAT
EVOLUTION® 280-EV6151-OR - NON-VENTED CLASS E



- 1** STORAGE BAG
CARRY BAG: 9400-52599 OR BACK PACK: 9400-52514



- 1** DIELECTRIC SAFETY GLASSES
CAPTAIN™ 250-46-0020



WITH AN ARC SHIELD & BALACLAVA OR ARC HOOD





8 & 12 CAL ARC KITS

PIP's 8 & 12 cal Arc Flash Kits are designed to meet your PPE 2 needs (insulating glove kits and arc rated hearing protection are not included). These kits provide you with the components needed to be in compliance with the NFPA 70E Standard.

PPE 2 ARC PROTECTION KITS

ITEM NUMBER	CLOTHING	CLOTHING STYLE NUMBER	FEATURE	BALACLAVA	ARC SHIELD	ARC RATING	STORAGE BAG
9150-5388E	Dual Certified Coverall	9100-2160D	Action Back	9100-HDFR15	9400-52505	8 cal/cm ²	Carry Bag
9150-5388EB	Dual Certified Coverall	9100-2160D	Action Back	9100-HDFR15	9400-52505	8 cal/cm ²	Back Pack
9150-5488E	Dual Certified Coverall	9100-2170D	Action Back	9100-HDFR15	9400-52505	12 cal/cm ²	Carry Bag
9150-5488EB	Dual Certified Coverall	9100-2170D	Action Back	9100-HDFR15	9400-52505	12 cal/cm ²	Back Pack
9150-52804	Jacket & Overall	9100-21780 & 9100-52564	2-Piece Set	9100-HDFR15	9400-52505	12 cal/cm ²	Back Pack
9150-52810	Jacket & Pant	9100-21780 & 9100-22070	2-Piece Set	9100-HDFR15	9400-52505	12 cal/cm ²	Carry Bag
9150-53871	Jacket & Overall	9100-21780 & 9100-52564	2-Piece Set	9100-HDFR15	9400-52505	12 cal/cm ²	Carry Bag



12 CAL ARC HEAD GEAR KITS

PIP's 12 & 20 cal Arc Flash Head Gear Kits are designed to meet PPE 2 needs for workers (insulating glove kits, and arc rated clothing and hearing protection are not included). These kits provide you with the above-the-neck components needed to be in compliance with the new NFPA 70E 2012 standard.

PPE 2 ARC HEAD GEAR KITS

ITEM NUMBER	BALACLAVA	ARC SHIELD	HEAD GEAR BAG	ARC RATING	STORAGE BAG
9150-52508	9100-HDFR15	9400-52505	9400-52509	12 cal/cm ²	None
9150-52512	9100-HDFR15	9400-52505	9400-52509	12 cal/cm ²	Carry Bag
9150-52500	9100-HDFR15	9400-52505	9400-52509	12 cal/cm ²	Back Pack
9150-56510	---	9400-52505	---	12 cal/cm ²	---
9150-56511	---	9400-52501	---	12 cal/cm ²	---

ARC FLASH PROTECTION KITS

25 & 33 CAL / 40-100 CAL ARC KITS



25 & 33 CAL ARC KITS

For higher voltage situations, PIP's 25 & 33 cal Arc Flash Kits are designed to meet your PPE 3 needs (insulating glove kits and arc rated hearing protection are not included). The kits come with safety helmet and arc hood in addition to the components needed to be in compliance with the NFPA 70E Standard.

PPE 3 ARC PROTECTION KITS

ITEM NUMBER	CLOTHING	CLOTHING STYLE NUMBER	FEATURE	HOOD	ARC RATING	STORAGE BAG
9150-52815	Coverall	9100-52772	Aramid Thread & Cuffs	9150-52515	25 cal/cm ²	Carry Bag
9150-52821	Coverall	9100-52772	Aramid Thread & Cuffs	9150-52515	25 cal/cm ²	Back Pack
9150-53003	Jacket & Overall	9100-21721 & 9100-21731	2-Piece Set	9150-52515	25 cal/cm ²	Carry Bag
9150-53018	Jacket & Overall	9100-21721 & 9100-21731	2-Piece Set	9150-52515	25 cal/cm ²	Back Pack
9150-52917	Coverall	9100-52758	Aramid Thread & Cuffs	9150-52685	33 cal/cm ²	Carry Bag
9150-52946	Coverall	9100-52758	Aramid Thread & Cuffs	9150-52685	33 cal/cm ²	Back Pack
9150-52609	Jacket & Overall	9100-52680 & 9100-53680	2-Piece Set	9150-52685	33 cal/cm ²	Carry Bag
9150-21712	Jacket & Overall	9100-21780 & 9100-52564	2-Piece Set	9150-52685	33 cal/cm ²	Back Pack



40-100 CAL ARC KITS

Serious protection demands serious products. PIP has worked to develop multiple kits for high risk environments. Together with you, we can help you meet compliance regulations by offering you turn-key kits. (Insulating glove kits and arc rated hearing protection are not included).

PPE 4 ARC PROTECTION KITS

ITEM NUMBER	CLOTHING	CLOTHING STYLE NUMBER	FEATURE	HOOD	ARC RATING	STORAGE BAG
9150-54VULT	Jacket & Overpant	9100-524ULT & 9100-530ULT	Ultralight	9150-5236V	40 cal/cm ²	Carry Bag
9150-54VULTB	Jacket & Overpant	9100-524ULT & 9100-530ULT	Ultralight	9150-5236V	40 cal/cm ²	Back Pack
9150-540ULT	Jacket & Overpant	9100-524ULT & 9100-530ULT	Ultralight	9150-523ULT	40 cal/cm ²	Carry Bag
9150-540ULTB	Jacket & Overpant	9100-524ULT & 9100-530ULT	Ultralight	9150-523ULT	40 cal/cm ²	Back Pack
9150-52436	Jacket & Overall	9100-52412 & 9100-52422	2-Piece Set	9150-52850	40 cal/cm ²	Carry Bag
9150-52436B	Jacket & Overall	9100-52412 & 9100-52422	2-Piece Set	9150-52850	40 cal/cm ²	Back Pack
9150-75050	Jacket & Overall	9100-75000 & 9100-75001	2-Piece Set	9150-75002	75 cal/cm ²	Carry Bag
9150-75050B	Jacket & Overall	9100-75000 & 9100-75001	2-Piece Set	9150-75002	75 cal/cm ²	Back Pack
9150-52730	Jacket & Overall	9100-52750 & 9100-53750	2-Piece Set	9150-52689	100 cal/cm ²	Carry Bag
9150-52730B	Jacket & Overall	9100-52750 & 9100-53750	2-Piece Set	9150-52689	100 cal/cm ²	Back Pack

ARC FLASH PROTECTION KITS

40 CAL HYBRID FABRIC ARC KITS

40

CAL/CM²

LIGHTER IS BETTER 37% BETTER

ULTRALIGHT 40 CAL/CM² CLOTHING UTILIZES A HYBRID FABRIC TECHNOLOGY TO INCREASE GARMENT DURABILITY IN THE FIELD WHILE DECREASING ITS WEIGHT BY 37%. OUR ULTRALIGHT GARMENT USES A DUPONT® SHELL TO PROVIDE ITS SUPERIOR TENSILE STRENGTH, INDUSTRIAL WASH RESISTANCE, AND LONG-TERM DURABILITY. MEETS NFPA 70E, ASTM F1506, OSHA 29 CFR 1910.269.

- 40 CAL/CM² HYBRID FABRIC TECHNOLOGY
- SHELL: DUPONT® PROTERA® (FIBER BLEND: 33% NOMEX® AND KEVLAR®, 65% MODACRYLIC, 2% ANTISTATIC)
- INSIDE LAYER: WESTEX® ULTRASOFT® INTERLOCK KNIT (88% COTTON, 12% HIGH TENACITY NYLON)



HYBRID FABRIC TECHNOLOGY

VENTILATING UNIT

VENTILATING UNIT AND POWER PACK ARE PROTECTED BY A COMPACT AND DURABLE ABS CASE COVERED BY ULTRALIGHT FABRIC.

- UNIT WEIGHT: 1 LB (16 OZ.)
- AIRFLOW: 35 CFM

6+ USABLE HOURS OF BATTERY LIFE

40 CAL ULTRALIGHT HOODS, JACKETS & PANTS (NFPA 70E, ASTM F1506)

ITEM NUMBER	GARMENT	FEATURE	COLOR	ARC RATING	SIZE
9150-5236V	Hood	Ventilated with Battery Pack	<input type="checkbox"/> Navy	40 cal/cm ²	OSFM
9150-523ULT	Hood	Non-Ventilated	<input type="checkbox"/> Navy	40 cal/cm ²	OSFM
9100-524ULT	Jacket	Aramid High Tenacity Thread	<input type="checkbox"/> Navy	40 cal/cm ²	S - 5X
9100-530ULT	Overpant	Aramid High Tenacity Thread	<input type="checkbox"/> Navy	40 cal/cm ²	S - 5X

ARC FLASH HEAD GEAR

REPLACEMENT SHIELDS & ACCESSORIES



TRANSPARENT CHIN CUP

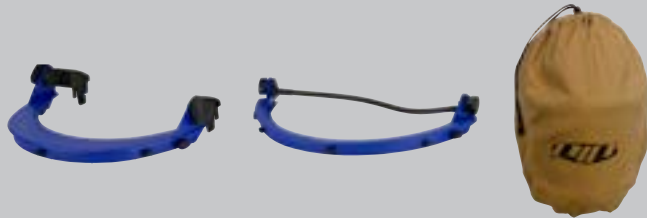


USES ACCESSORY SLOTS



UNIVERSAL FIT

ADAPTERS & STORAGE BAGS



ARC PROTECTIVE SHIELDS (NFPA 70E, ASTM F2178, ANSI Z87+S, INCLUDES CHIN CUP)

ITEM NUMBER	ARC RATING	MATERIAL	FITS	CHIN CUP COLOR	INCLUDES
9400-53512	12 cal/cm ²	Polycarbonate	Full Brim	Transparent	Mounting Bracket
9400-53520	20 cal/cm ²	Polycarbonate	Full Brim	Transparent	Mounting Bracket
9400-53514	12 cal/cm ²	Polycarbonate	Cap Style	Transparent	Mounting Bracket
9400-53524	20 cal/cm ²	Polycarbonate	Cap Style	Transparent	Mounting Bracket
9400-53502	12 cal/cm ²	Polycarbonate	---	Transparent	Replacement Shield
9400-53504	20 cal/cm ²	Polycarbonate	---	Transparent	Replacement Shield
9400-52505	12 cal/cm ²	Polycarbonate	Cap Style	Blue	Clip Mount
9400-52511	20 cal/cm ²	Polycarbonate	Cap Style	Blue	Clip Mount
9400-52501	12 cal/cm ²	Polycarbonate	Universal	Blue	Elastomeric Hard Hat Attachment
9400-52507	20 cal/cm ²	Polycarbonate	Universal	Blue	Elastomeric Hard Hat Attachment
9400-52502	12 cal/cm ²	Polycarbonate	---	Blue	Replacement Shield
9400-52504	20 cal/cm ²	Polycarbonate	---	Blue	Replacement Shield

ARC PROTECTIVE ACCESSORIES (NFPA 70E, ASTM F2178, ANSI Z87+S)

ITEM NUMBER	MATERIAL	DESCRIPTION
9400-52503	Nylon	Cap Style Hard Hat Adapter
9400-52506	Nylon	Full Brim Hard Hat Adapter with Elastomeric Band
9400-80016	Nylon	Universal Hard Hat Adapter with Elastomeric Band
9400-52509	Cotton	Premium Arc Shield Storage Bag with Pull Cord Closure
9400-52508	Cotton	Arc Shield Storage Bag with Pull Cord Closure

Hard hat not included



ARC SHIELDS

ARC FLASH HEAD GEAR

ARC FLASH HOODS



INCORPORATES
UV AND IR ABSORBING
ARC SHIELD LENS
PROVIDING PROTECTION
UP TO 100 CAL/CM²



GREEN TINT WINDOW IS
COATED WITH A PERMANENT
ANTI-FOG INNER SURFACE

ELECTRICAL ARC HOODS (NFPA 70E, ASTM F1506)

ITEM NUMBER	WEIGHT	LAYERS	MATERIAL	PPE CAT.	ARC RATING	DESCRIPTION
9150-52548	9 oz.	1	Cotton / Nylon	2	12 cal/cm ²	Includes Arc Shield, Hard Hat, etc.
9150-52515	7 oz.	2	Cotton / Nylon	3	25 cal/cm ²	Includes Arc Shield, Hard Hat, etc.
9150-52685	9 oz.	2	Cotton / Nylon	3	33 cal/cm ²	Includes Arc Shield, Hard Hat, etc.
9150-5236V	8 oz. / 6 oz.	2	Protera [®] / Ultrasoft [®]	4	40 cal/cm ²	Includes Arc Shield, Hard Hat, etc.
9150-523ULT	8 oz. / 6 oz.	2	Protera [®] / Ultrasoft [®]	4	40 cal/cm ²	Includes Arc Shield, Hard Hat, etc.
9150-52850	9 oz. / 13 oz.	2	Cotton / Nylon	4	40 cal/cm ²	Includes Arc Shield, Hard Hat, etc.
9150-75002	13 oz. / 5.5 oz. 13 oz. / 5.5 oz.	4	Cotton / Nylon	4	75 cal/cm ²	Includes Arc Shield, Hard Hat, etc.
9150-52689	---	Multi	Ultrasoft [®] / High Tenacity Nylon	4	100 cal/cm ²	Includes Arc Shield, Hard Hat, etc.

ELECTRICAL ARC HOOD REPLACEMENT WINDOWS (NFPA 70E, ASTM F2178, ANSI Z87+S)

9400-52517	6.4 oz.	---	Polycarbonate	3	25 cal/cm ²	Arc Shield Replacement Window
9400-52686	8 oz.	---	Polycarbonate	4	40 cal/cm ²	Arc Shield Replacement Window
9400-52699	9.6 oz.	---	Polycarbonate	4	100 cal/cm ²	Arc Shield Replacement Window

ULTRALIGHT

ARC FLASH HOODS

Arc Rating (NFPA)
40 cal/cm²

ARC FLASH ACCESSORIES

HOODS / BAGS / EYEWEAR



◀ 385-FRBL-11-NV



◀ 9100-HDFR15



ARC RATED PROTECTION BALACLAVAS

ITEM NUMBER	COLOR	WEIGHT	LAYERS	MATERIAL	PPE CATEGORY	ARC RATING
385-FRBL-11-NV	■ Navy	6.5 oz.	Single	FR Cotton Knit	2	11.8 cal/cm ²
385-FRBL-11-OR	■ Orange					
9100-HDFR12	■ Navy	8.5 oz.	Single	Pro-C FR Westex® Ultrasoft®	2	12.1 cal/cm ²
9100-HDFR15	■ Navy	8.5 oz.	Single	FR Cotton Rib	2	15.1 cal/cm ²
385-HDFR13-NV	■ Navy	13 oz.	Double	FR Cotton / Nylon Knit	3	32.4 cal/cm ²
385-HDFR13-OR	■ Orange					



FOR USE UNDER ARC SHIELDS

BALACLAVAS



▼ 9400-52514

WATER RESISTANT SHELL



▼ 9400-52599

ESP KIT STORAGE BAGS

ITEM NUMBER	COLOR	STYLE	MATERIAL	FEATURE	CLOSURE	SIZE
9400-52514	■ Orange	Back Pack	600 D Polyester	Insulating Glove Pocket	Drawcord & Buckle	20"L x 8"W x 15"H
9400-52599	■ Orange	Carry Bag	600 D Polyester	Molded Rubber Bottom	Zipper	24"L x 10"W x 13"H



SAFETY GLASSES

REFER TO THE PAGE NUMBERS BELOW FOR MORE INFORMATION

bouton
OPTICAL



▲ TRANZMISSION
PAGE 195

▲ CAPTAIN
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▲ Q-VISION
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