

ARCGEAR®

Electrical Arc Protective Apparel
EDITION #6



↑ DANGER ↑
HIGH VOLTAGE LINES
34,000 VOLTS

Qualified Protection to meet **YOUR** needs

STEEL GRIP, INC.





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Foreword

Steel Grip Inc. introduces the new product line of electrical arc protective clothing - ArcGear - to assist in your efforts for compliance to current safety standards concerning arc hazards in the electrical industry.

ArcGear garments offer a protective range of 7 cal/cm² to 100 cal/cm² depending on materials and style. All garment materials have test data available via Email or FAX upon request. With this selection we can meet all hazard risk categories of NFPA 70E.

NFPA, OSHA, ASTM and ANSI Standards are listed where garments comply.

The user must perform a hazard risk assessment to determine his or her level of exposure/need. This task can be accomplished with the proper training and software. Professional assistance is available at arcwear.com. Contact Steel Grip Inc. for more details.

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LIABILITY STATEMENT

These products are warranted only against defects in manufacture. Because applications vary, no use warranty is implied or intended. The Buyer should make a careful analysis of the use and purpose for which these products are purchased. It will be the Buyer's duty and responsibility to determine whether these products will adequately protect the wearer or user in the environment in which they are used.

DISCLAIMER OF WARRANTIES

There are no warranties which extend beyond the description on the face hereof. Steel Grip, Inc., and the distributors of its products disclaim and exclude all other warranties, whether implied or otherwise, and expressly disclaim and exclude any warranties that might otherwise be implied, including the implied warranties of merchantability and fitness for any particular or intended use, purpose, or application. No oral representation inconsistent with the above shall be binding to Steel Grip, Inc.

We certify that these goods are produced in compliance with all applicable requirements of Sections 6, 7 and 12 of the Fair Labor Standards Act, as amended and of regulations and orders of the United States Department of Labor issued under Section 14 thereof.

20 cal/cm² Arc Rating

Electrical Arc Protective Apparel Hazard Risk Category 2

Our mid-range level protective garments for electrical hazard exposure are lightweight and flexible. The fabric affords greater mass and therefore higher protective values. As stated in the established standards, the user must determine his or her level of exposure. ArcGear meets or exceeds standards (requirements) set forth in the NFPA 70E Standard, OSHA 1910.269 CFR, and ASTM F 1506

3 Piece Suit Option Includes:

- HOOD** - replaceable tinted lens
- JACKET** - 35" length with VELCRO® closures
- PANTS** - accommodates waist belt



NFPA 70E
COMPLIANCE REQUIRES:
 Wearing The Complete Suit
 Hood, Jacket & Pant
AS ONE UNIT

SUIT is constructed of navy INDURA® Ultra Soft™



NBU8723P

- Tinted lens
- Meets ANSI Z87.1
- Dielectric hard cap included

20 CAL/CM² ARC RATING



Replaceable Tinted Lens
8723P • STOCK



TEL **1-800-223-1595**

FAX 1-800-270-0517

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20 cal/cm² Garments
 Meet or Exceed:
NFPA 70E
OSHA 1910.269 CFR
ASTMF 1506

For further technical information
LOG ON to ARCWEAR.COM
All ARC ratings based on independent test results.

20 CAL/CM²
ARC RATING

NBU8571-35P

- 35" length Jacket
- FR VELCRO® front closure
- FR VELCRO® wrist closures
- Military collar
- SIZE: Small thru 6XLarge

20 CAL/CM² ARC RATING

Fall Protection/Retrieval Harness Access Available

NBU8571-35PH

ADDITIONAL CHARGES: 2XL & 3XL + 10%
4XL & 5XL + 20%
6XL & UP - Contact Steel Grip



NBU9460

- Pants - 4 pockets
- 7 belt loops
- Zipper fly closure

20 CAL/CM² ARC RATING

ORDER BY WAIST EVEN INCREMENTS: 28" thru 62"
SIZING CHARGES
Waist 46" - 52" + 10%
Waist 54" - 58" + 20%
60" & UP - Contact Steel Grip

MUST STATE INSEAM:
28", 30", 32", 34", 36"
Standard inseam = 32"
SIZING CHARGES
36" & 38" + 5%

40 cal/cm² Arc Rating

Electrical Arc Protective Apparel Hazard Risk Category 4

Our higher level protective garments for electrical hazard exposure are multi-layered yet lightweight and flexible. The additional fabric layers afford greater mass and therefore higher protective values. As stated in the established standards, the user must determine his or her level of exposure. ArcGear meets or exceeds standards (requirements) set forth in the NFPA 70E Standard, OSHA 1910.269 CFR, and ASTM F 1506

3 Piece Suit Option Includes:

HOOD - replaceable tinted lens

JACKET - 35" length with VELCRO® closures

OVERPANTS - accommodate belt or suspenders



NBN4 8723 M

- Tinted lens
- Meets ANSI Z87.1
- Dielectric hard cap included
- 40 CAL/CM² ARC RATING**
- **STOCK** - Hood and Lens



Replaceable Tinted Lens
8723 M • STOCK



NFPA 70E
COMPLIANCE REQUIRES:
Wearing The Complete Suit
Hood, Jacket & Over Pant
AS ONE UNIT

SUIT is constructed of layers of KEVLAR® barrier material sandwiched between navy NOMEX® IIIA



NBN4 8572-35 M

- 35" length Jacket
- FR VELCRO® front closure
- FR VELCRO® wrist closures
- Military collar
- SIZE: Small thru 6XLarge

40 CAL/CM² ARC RATING

• **STOCK: Large thru 2XLarge**



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40 cal/cm² Garments
Meet or Exceed:
NFPA 70E
OSHA 1910.269 CFR
ASTM F 1506

For further technical information
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All ARC ratings based on independent test results.

40 CAL/CM²
ARC RATING



NBN4 5614 M

- Over Pants - no pockets
- Belt loops and suspender buttons
- 4-way suspenders (ORDER SEPARATELY)
- FR VELCRO® fly
- FR VELCRO® leg opening with gusset
- SIZE: Medium thru 4XLarge

40 CAL/CM² ARC RATING

• **STOCK: Large and XLarge**

ADDITIONAL CHARGES: 2XL & 3XL + 10%
4XL + 20%

5XL & UP - Contact Steel Grip

Fall Protection/Retrieval Harness Access Available

NBN4 8572-35 MH

ADDITIONAL CHARGES: 2XL & 3XL + 10%

4XL & 5XL + 20%

6XL & UP - Contact Steel Grip

55 cal/cm² Arc Rating

Electrical Arc Protective Apparel Hazard Risk Category 4

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3 Piece Suit Option Includes:

- HOOD** - replaceable tinted lens
- JACKET** - 35" length with VELCRO® closures
- OVERPANTS** - accommodate belt or suspenders



NFPA 70E
COMPLIANCE REQUIRES:
Wearing The Complete Suit
Hood, Jacket & Over Pant
AS ONE UNIT

SUIT is constructed of layers of KEVLAR® barrier material sandwiched between INDURA® Ultra Soft™ and navy NOMEX® IIIA



NBU7 8723 M01

- Tinted lens
- Meets ANSI Z87.1
- Dielectric hard cap included

55 CAL/CM² ARC RATING

- **STOCK** - Hood and Lens



Replaceable Tinted Lens
8723 M01 • STOCK



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55 cal/cm² Garments
Meet or Exceed:
NFPA 70E
OSHA 1910.269 CFR
ASTM F 1506

For further technical information

LOG ON to ARCWEAR.COM

All ARC ratings based on independent test results.

55 CAL/CM²
ARC RATING

NBU7 8572-35 M01

- 35" length Jacket
- FR VELCRO® front closure
- FR VELCRO® wrist closures
- Military collar
- SIZE: Small thru 6XLarge

55 CAL/CM² ARC RATING

- **STOCK: Large thru 2XLarge**

Fall Protection/Retrieval Harness Access Available

NBU7 8572-35 M01H

ADDITIONAL CHARGES: 2XL & 3XL + 10%

4XL & 5XL + 20%

6XL & UP - Contact Steel Grip



NBU7 5614 M01

- Over Pants - no pockets
- Belt loops and suspender buttons
- 4-way suspenders (ORDER SEPARATELY)
- FR VELCRO® fly
- FR VELCRO® leg opening with gusset
- SIZE: Medium thru 4XLarge

55 CAL/CM² ARC RATING

- **STOCK: Large and XLarge**

ADDITIONAL CHARGES: 2XL & 3XL + 10%

4XL + 20%

5XL & UP - Contact Steel Grip

100 cal/cm² Arc Rating

Electrical Arc Protective Apparel Hazard Risk Category 4

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3 Piece Suit Option Includes:

HOOD - replaceable tinted lens

JACKET - 35" length with VELCRO® closures

OVERPANTS - accommodate belt or suspenders

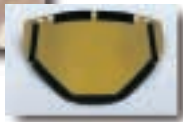


TW88723M02

- Tinted lens
- Meets ANSI Z87.1
- Dielectric hard cap included

100 CAL/CM² ARC RATING

- **STOCK** - Hood and Lens



Replaceable Tinted Lens
8723M02 • STOCK



NFPA 70E

COMPLIANCE REQUIRES:

Wearing The Complete Suit
Hood, Jacket & Over Pant

AS ONE UNIT

SUIT is constructed of layers of KEVLAR® barrier material sandwiched between TuffWeld®



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100 cal/cm² Garments
Meet or Exceed:
NFPA 70E
OSHA 1910.269 CFR
ASTM F 1506

For further technical information
LOG ON to ARCWEAR.COM
All ARC ratings based on
independent test results.

100 CAL/CM²
ARC RATING



TW88572-35 M02

- 35" length Jacket
- FR VELCRO® front closure
- FR VELCRO® wrist closures
- Military collar
- SIZE: Small thru 6XLarge

100 CAL/CM² ARC RATING

- **STOCK: Large thru 2XLarge**

Fall Protection/Retrieval Harness Access Available

TW8 8572-35 M02H

ADDITIONAL CHARGES: 2XL & 3XL + 10%

4XL & 5XL + 20%

6XL & UP - Contact Steel Grip

TW85614 M02

- Over Pants - no pockets
- Belt loops and suspender buttons
- 4-way suspenders (ORDER SEPARATELY)
- FR VELCRO® fly
- FR VELCRO® leg opening with gusset
- SIZE: Medium thru 4XLarge

100 CAL/CM² ARC RATING

- **STOCK: Large and XLarge**

ADDITIONAL CHARGES: 2XL & 3XL + 10%

4XL + 20%

5XL & UP - Contact Steel Grip

Electrical Arc Apparel Size Charts

Jackets - Over Pants - Pants

* For “actual body” chest and waist measurements between two sizes **ORDER THE LARGER SIZE !**

20, 40, 55 & 100 cal/cm²



SIZE CHART	JACKETS (ORDER BY CHEST SIZE & GARMENT LENGTH)				
	SM (36/38)	MD (40/42)	LG (44/46)	XL (48/50)	2XL (52/54)
SLEEVE LENGTH	31	33	34	35	36



OPTIONAL LENGTHS

- Garment Length 35"

** Special Optional Sleeve Lengths **CONTACT STEEL GRIP**

40, 55 & 100 cal/cm²



SIZE CHART	OVER PANTS (ORDER BY WAIST SIZE & INSEAM LENGTH)				
	SM (30/32)	MD (34/36)	LG (38/40)	XL (42/44)	2XL (46/48)
WAIST SIZE	30/32	34/36	38/40	42/44	46/48



SPECIFY OPTIONAL INSEAM

- Short Fits under 30" inseam
- Long Fits over 34" inseam

Standard Inseam Fits 30" - 34" inseam

ORDER "4-way suspenders" SEPARATELY

20 cal/cm²

SIZE CHART	PANTS (ORDER BY WAIST SIZE & INSEAM LENGTH)									
	30	32	34	36	38	40	42	44	46	48
WAIST SIZE	30	32	34	36	38	40	42	44	46	48

SPECIFY DESIRED INSEAM

- Inseam Lengths 28" 30" 32" 34" 36"

Standard Inseam Length 32"



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Secondary Workwear - Extended Use Shirts - Pants - Coveralls

Extended Use - fabrics are deemed flame resistant through the useful life of the garment. Flame resistant clothing is secondary protection to safeguard workers exposed to open flame, sparks, and other similar sources. To accommodate long wear, our garments are topstitched at critical wear areas.

NFPA 70E

COMPLIANCE REQUIRES:

Wearing The Shirt & Pant
or Coverall

AS ONE UNIT

NBU9 9460 PANT

11 CAL/CM² ARC RATING

Hazard Risk Category 2

- Navy blue, 9 oz. INDURA® Ultra Soft™
- 7 belt loops
- Standard 4 pocket construction
- Zipper fly closure

ORDER BY WAIST EVEN
INCREMENTS: 28" thru 62"

SIZING CHARGES

Waist 46" - 52" + 10%

Waist 54" - 58" + 20%

60" & UP - Contact Steel Grip

MUST STATE INSEAM: 28", 30", 32", 34", 36"

Standard Inseam = 32"

SIZING CHARGES

36" & 38" + 5%



MBU7 9575 SHIRT

8 CAL/CM² ARC RATING

Hazard Risk Category 2

- Medium blue, 7 oz. INDURA® Ultra Soft™
- Button front closure
- Breast pockets with flaps
- 2 button adjustment at cuff
- SIZE: Small thru 6XLarge

SIZING CHARGES

2XL & 3XL + 10%

4XL & 5XL + 20%

6XL & UP - Contact Steel Grip
Optional Lengths + 5%



NBU7 9800 COVERALL

8 CAL/CM² ARC RATING

Hazard Risk Category 2

- Navy blue, 7 oz. INDURA® Ultra Soft™
- Lay down collar, lapel style, action back
- Covered 2-way zipper with snap at neck and waist
- Elastic in waistband
- Closed sleeve with snap adjustment
- 2 breast pockets, left with pencil divider
- 2 hip pockets, 2 reach-in pockets with side slits & modesty flaps
- Right leg tool pocket

ORDER by chest even sizes: 36" thru 66"

SIZING CHARGES

50" - 58" + 10%

60" - 66" + 20%

Optional Lengths + 5%



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Shirts, Pants, Coveralls

Meet or Exceed:

NFPA 70E

OSHA 1910.269 CFR

ASTMF 1506

For further technical information

LOG ON to ARCWEAR.COM

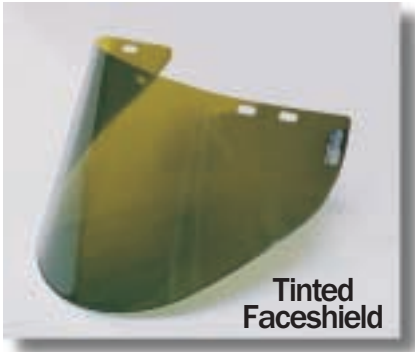
All ARC ratings based on

independent test results.

Electrical Workers Accessories

Faceshield - Visor/Adapter - Hard Caps - Hood

NOT FOR USE in
8723 Style Hoods



4655 Faceshield
8 CAL/CM² ARC RATING
Hazard Risk Category 2
Meets ANSI Z87.1
STOCK

- REPLACEABLE faceshield
- Attaches to the hard cap visor/adapter (Universal & Slotted)



NK 2310
Sock Hood (full face)

- 2-ply stretch white NOMEX® with 1-ply cape
- Flame resistant and launderable

STOCK



4665 Visor/Adapter

- Universal for NON-Slotted Hard Caps
- Flip-up adjustable positioning
- One size fits all

STOCK



4660 Visor/Adapter

- For Slotted Hard Caps
- Flip-up adjustable positioning
- One size fits all

STOCK



4670 HardCap

- Dielectric hard cap Class G Rating
- Accommodates Universal and Slotted visor/adapters
- Adjustable ratchet suspension
- One size fits all

STOCK



4690 Assembly Includes

- 4655 Faceshield
- 4660 Slotted visor/adapter
- 4670 Dielectric hard cap

STOCK

4691 Assembly Includes

- 4655 Faceshield
- 4665 Universal visor/adapter
- 4670 Dielectric hard cap

STOCK

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Electrical Workers Accessories

Vest - Equipment Bag

HI-VIS Vest

Meets ANSI/ISEA 107-1999 CLASS II
Meets ASTM F 1506



YM6 6020C

- Strong yellow,
6.5 oz. FR 100% Modacrylic silver reflective tape - front & back
- FR VELCRO® front closure
 - 2 inside front pockets
 - SIZE: Medium thru 4XLarge

ADDITIONAL CHARGES:
2XL & 3XL + 10%
4XL + 20%

Suit / Equipment Bag



STOCK
13" high x 24" width x 13" deep

NBPC 1676 ECA

- 430 denier navy Nylon
- Water repellent
 - 1 1/2" DACRON® webbing strap handles
 - Plastic zipper closure

Technical Information

Source: NFPA 70E, STANDARD FOR ELECTRICAL SAFETY REQUIREMENTS FOR EMPLOYEE WORKPLACE

TABLE 3-3.9.3 Protective Clothing Characteristics

Typical Protective Clothing Systems			
Hazard Risk Category	Clothing Description (Number of clothing layers is given in parentheses)	Total Weight oz/yd ²	Minimum Arc Thermal Performance Exposure Value (ATPV)* or Breakopen Threshold Energy (E _{BT})* Rating of PPE cal/cm ²
0	Untreated cotton (1)	4.5 - 7	N/A
1	FR shirt and FR pants (1)	4.5 - 8	5
2	Cotton underwear plus FR shirt and FR pants (2)	9 - 12	8
3	Cotton underwear plus FR shirt and FR pants plus FR coverall (3)	16 - 20	25
4	Cotton underwear plus FR shirt and FR pants plus double layer switching coat and pants (4)	24 - 30	40

*ATPV is defined in the ASTM P S58 standard arc test method for flame resistant (FR) fabrics as the incident energy that would just cause the onset of a second degree burn (1.2 cal / cm²). E_{BT} is reported according to ASTM P S58 and is defined as the highest incident energy which did not cause FR fabric breakopen and did not exceed the second-degree burn criteria. E_{BT} is reported when ATPV cannot be measured due to FR fabric breakopen.

**TO CLASSIFY TASKS REFER TO:
NFPA 70E TABLE 3-3.9.1 and 3-3.9.2**



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