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Shanghai C&G Safety Co., Ltd.

Personal Protective Clothing



2024-25
Version

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COMPANY PROFILE

Shanghai C&G Safety Co., Ltd.

Shanghai C&G Safety Co., Ltd. (hereinafter referred to as "Shanghai C&G") was established in 2005 and is headquartered in Shanghai, the innovation capital of China. It focuses on the safety and emergency industry, dedicating to R&D, production and sales of emergency rescue equipment, personal safety protective equipment, special functional protective clothing, safety tools and new materials of electrical fire protection and safety emergency. It is also an integrator of MRO products and services related to the safety emergency industry, providing professional one-stop solutions for various emergencies and operating personnel who may be exposed to different high-risk environments such as arcs, electric fields, high temperatures, flash fires, explosions, chemicals, and viruses. At present, its main services cover domestic and international power energy, emergency fire protection, petroleum and petrochemical, and production-oriented industrial and mining enterprises.

Shanghai C&G adheres to the spirit of innovation, continuously invests in new technology research and new product development, and has successively won the title of "Specialized in special new" in Shanghai and a national high-tech enterprise. With a R&D center and an independent laboratory in Pudong, Shanghai and long-term strategic cooperation with many professional colleges and scientific research institutions, it has continuously launched many innovative products and safety emergency solutions for various high-risk industries such as electric power, emergency, fire protection, petroleum and petrochemical industries. In addition, it also has a strong sales and service network covering the whole country. With offices or contracted authorized service providers in all provinces, it provides domestic customers with the first-time service response. At the same time, it continues to develop the international market and sell products widely in more than 110 countries around the world.

As the vice-chairman unit of the China Textile Business Association Safety and Health Protection Products Committee and the vice-chairman unit of the Shanghai Labor Protection Products Industry Association, it has successively obtained Safety signs for special labor protection products (LA) and China Certification Center for Fire Products Ministry of Public Security (CCCF). While complying with national standards, many products have passed the certification of American Standard or European Standard, and obtained ISO9001, ISO14001 and ISO45001 management system certification.

Shanghai C&G is committed to building a leading brand in the safety emergency industry with technological innovation as the core and sustainable development, providing customers with one-stop safety emergency solutions, escorts for every worker and makes the world safer!



Headquarter



R&D Center



Laboratory

Arc Flash Protection -C&G® Arcpro®

What is electric arc?

An electric arc is a visible plasma discharge caused by electrical current ionizing gases in the air. Electric arc is explosive, it will last less than 1 second but will emit high radiant energy which can light and even melt daily clothes. The core temperature of electric arc can reach 20,000°C. Electric arc may induce many secondary hazards such as hot gases, molten metal splash, pressure waves, and even high decibel noise and electric shock.

Even though there is a fraction of a second, the harm may last lifelong. Every day, hundreds of thousands of electric workers are exposed to electric arc hazards, including electricians, wire maintenance inspectors, power plant workers, substation and transformer operators, maintenance technicians, etc.



Hazards related to electric arc

01 Electrocutation

When contacting electric arc directly, it will cause electrocution or severe burns. And even flame resistant garments cannot protect from the hazard of electrocution.

02 Severe burns caused by electric arc

A worker may get injured even without contacting electric arc. Electric arc will generate extreme radiant heat which may melt tools and light daily clothes. And once the clothes are lighted, they will continue to burn and increase the injury.

03 Severe burns caused by burst of clothing

The explosion or impulse caused by electric arc can blast apart daily clothes and expose the body to heat, flame and melted equipment.

04 Severe burns caused by melted underwear made from synthetic fiber

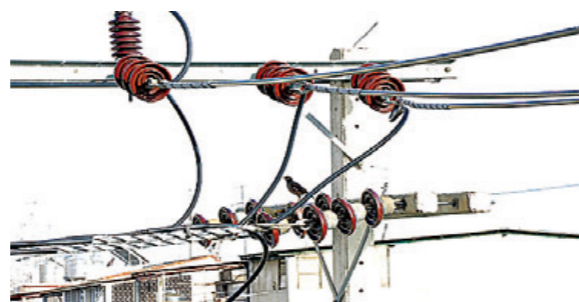
Heat caused by electric arc will melt underwear made from synthetic fiber even the outerwear is not burning.

05 Severe burns caused by the secondary flame

The intense heat of electric arc can cause fire disaster and additional explosions. For example, electric arc can light transformers or explode nearby constructions.

Generally, the incident energy is affected by different fault current, time duration and working environments (opened air or sealed air). It is important to learn that the time duration of electric arc is critical to burn degree. Since the energy caused by electric arc is affected by time duration and current, the burn degree caused by lower fault current and longer time duration will be severer than it caused by higher fault current and short time duration. And even a relatively lower voltage system (480/227V) will form an electric arc of 3 to 4 inches and will last a long time.

There are many variables for electric arc explosion. Therefore, although statistical method could be used to analyze hazards caused by arc current, the real hazard may be different. Due to the unpredictability of arc explosion, electrical workers will definitely need protective clothing in the workplace where electric arc energy can affect.



Arc Flash Protection -C&G® Arcpro®

Why should we choose C&G® arc flash protective garments?

C&G® arc flash protective garments are made of C&G® Arcpro® inherent flame resistant fabric, which is designed to protect from electric arc.

01 Excellent protection

Thermal protection performance, Crack resistance, Antistatic performance

Inherent flame resistance comes from the molecular structure of fiber

Arcpro® fiber is inherently flame resistant. Its flame resistance comes from the fiber itself instead of chemical treatment on the surface. Therefore, C&G Arcpro® arc flash protective garments provide permanent protection, and the performance will not be washed out or worn

C&G Arcpro® arc flash protective garments neither melt nor burn or support combustion. When exposed to fire, the garments will form a protective barrier between heat resource and the body, which provides people more time to escape.

Prevent garments from burst caused by explosion of electric arc

As being blended with C&G Arcpro® high-strength fiber, C&G Arcpro® arc flash protective garments provides better anti-burst performance compared with chemical treated cotton garments of same weight.

Prevent fiber from electrostatic accumulation

Static may bring inconvenience or threat to Power Industry, so C&G Arcpro® is mixed with anti-static fiber. Thus, C&G Arcpro® arc flash protective garments can reduce static coming from the friction between fiber and fiber, or fiber and skin. Meanwhile, it helps to reduce static even in low temperature or low humidity condition, which makes it more comfortable to wear and prevents people from the risk of electrostatic accumulation in explosive environments.

Besides, proper grounding procedures are necessary to remove the static in explosive environments.

02 Outstanding durability

With built-in electric arc protection and longer lifecycle. High value, light weight, more comfort, safety comes first. C&G Arcpro® is compliant with NFPA 70E requirements. This means when used properly, the wearers are protected against the heat of electric arc exposure.

No need to sacrifice protection for comfort

With durability for a longer lifecycle and better value, C&G Arcpro® arc flash garments stand up to more washes and are more durable than FR cotton nylon blend garments of similar weight. They are also designed to retain their appearance throughout extended on-the-job use and repeated laundering. Your customers will see the difference. And you'll get more cycles out of every garment.

Could stand up to tough laundry conditions

Built-in protection you expect from C&G Arcpro®. The protection of C&G Arcpro® cannot be washed out or worn away-a powerful advantage over treated FR garments. It's also good to know, this innovative, new fabric requires no special laundering processing and provides excellent protection wash after wash.

Strength and tear resistance, wash after wash

A garment's first job is protecting workers from electric arc incidents - rips and tears aren't an option. In fact, a single rip or tear can mean replacing the entire garment. But C&G Arcpro® helps minimize that risk and the life expectancy of the garment. Because it is twice as strong as FR cotton nylon blends, and it stays twice as strong, even after 100 washing or UV exposure.

Laundering can be as hard on a fabric as wearing it. That's why C&G ArcPro® was created to stand up to repeated washes. It starts off stronger and stays stronger than FR cotton nylon blends after repeated washes. C&G Arcpro® provides better tear resistance than FR cotton nylon blends whether the fabric is tested when new or after it has gone through 100 washes.

Arc Flash Protective Clothing

CAT 4 65CAL Arc Flash Suit

Model: ArcPro-Suit-65

ATPV: 65 cal/cm²

Material: C&G Arcpro® Inherently flame resistant fabric

Description: Inherently flame resistant and its protection cannot be washed out or worn away, multilayer combination is lighter than FR cotton-nylon blend garments, reducing the hazards of electric arc. Flame retardant reflective tapes can be added to make it highly visible. And the cooling system can be installed on the hood to keep the user cool.

Color: Navy blue, Orange

Standard: ASTM F1959, ASTM F2621,NFPA 70E, IEC 61482-1-1, EN ISO 11612:2015, EN 1149-5:2018, DL/T320-2019, GB 8965.1-2020



Model	Description
ArcPro-J-65	65 cal/cm ² arc flash protective jacket
ArcPro-Bib-65	65 cal/cm ² arc flash protective bib-overall
ArcPro-Hood-65	65 cal/cm ² arc flash protective hood
ArcPro-GLV-65	65cal/cm ² arc flash protective gloves

Arc Flash Protective Clothing

CAT4 45CAL Arc Flash Suit

Model: ArcPro-Suit-45

ATPV: 45 cal/cm²

Material: C&G Arcpro® Inherently flame resistant fabric

Description: Inherently flame resistant and its protection cannot be washed out or worn away, multilayer combination is lighter than flame retardant cotton-nylon blended garments, reducing the hazards of electric arc. Flame retardant reflective tapes can be added to make it highly visible. And the cooling system can be installed on the hood to keep the user cool.

Color: Dark blue, Medium blue, Grey, Orange

Standard: ASTM F1959, ASTM F2621,NFPA 70E, IEC 61482-1-1, EN ISO 11612:2015, EN 1149-5:2018, DL/T320-2019, GB 8965.1-2020



Model	Description
ArcPro-Robe-45	45 cal/cm ² arc flash protective robe
ArcPro-J-45	45 cal/cm ² arc flash protective jacket
ArcPro-P-45	45 cal/cm ² arc flash protective pants
ArcPro-Bib-45	45 cal/cm ² arc flash protective bib-overall
ArcPro-Hood-45	45 cal/cm ² arc flash protective hood
ArcPro-LHood-45	45 cal/cm ² arc flash protective Lift-Front hood
ArcPro-GLV-45	45 cal/cm ² arc flash protective gloves
ArcPro-Leg-45	45 cal/cm ² arc flash protective leggings

CAT 4 55CAL Arc Flash Suit

Model: ArcPro-Suit-55

ATPV: 55 cal/cm²

Material: C&G Arcpro® Inherently flame resistant fabric

Description: Inherently flame resistant and its protection cannot be washed out or worn away, multilayer combination is lighter than flame resistant cotton-nylon blended garments, reducing the hazards of electric arc.

Flame retardant reflective tapes can be added to make it highly visible. And the cooling system can be installed on the hood to keep the user cool.

Color: Navy blue, Orange

Standard: ASTM F1959, ASTM F2621,NFPA 70E, IEC 61482-1-1, EN ISO 11612:2015, EN 1149-5:2018, DL/T320-2019, GB 8965.1-2020



Model	Description
ArcPro-Robe-55	55 cal/cm ² arc flash protective robe
ArcPro-J-55	55 cal/cm ² arc flash protective jacket
ArcPro-P-55	55 cal/cm ² arc flash protective pants
ArcPro-Bib-55	55 cal/cm ² arc flash protective bib-overall
ArcPro-Hood-55	55 cal/cm ² arc flash protective hood
ArcPro-GLV-55	55 cal/cm ² arc flash protective gloves
ArcPro-Leg-55	55 cal/cm ² arc flash protective leggings

CAT 4 45CAL Arc Flash Lift-Front Hood

Model: ArcPro-LHood-45

ATPV: 45 cal/cm²

Material: C&G Arcpro® inherently flame resistant fabric
Shield-Polycarbonate, Bracket- Nylon

Description: Lift-front technology allows for enhanced breathability and communication. Toric lens design and nanoparticle grey color provide excellent field of view, enhanced color recognition, and reduced internal glare. Premium anti-fog & anti-abrasion coated. It is used in association with dielectric head protection and accessories to provide protection from the hazards of electric arc.

Color: Fabric- Dark blue, Medium blue, Grey, Orange
Shield- Grey, Bracket- Blue

Standard: ASTM F2178, ASTM F1959, DL/T 320-2019



Arc Flash Protective Clothing

CAT 3 33CAL Arc Flash Suit



Model: ArcPro-Suit-33
ATPV: 33 cal/cm²
Material: C&G Arcpro® Inherently flame resistant fabric
Description: Inherently flame resistant and its protection cannot be washed out or worn away, multilayer combination is lighter than flame retardant cotton-nylon blended garments, reducing the hazards of electric arc.
 Flame retardant reflective tapes can be added to make it highly visible.
 And the cooling system can be installed on the hood to keep the user cool.
Color: Dark blue, Medium blue, Grey, Orange
Standard: ASTM F1959, ASTM F2621,NFPA 70E, IEC 61482-1-1, EN ISO 11612:2015, EN 1149-5:2018, DL/T320-2019, GB 8965.1-2020

Model	Description
ArcPro-Robe-33	33 cal/cm ² arc flash protective robe
ArcPro-J-33	33 cal/cm ² arc flash protective jacket
ArcPro-P-33	33 cal/cm ² arc flash protective pants
ArcPro-Bib-33	33 cal/cm ² arc flash protective bib-overall
ArcPro-Hood-33	33 cal/cm ² arc flash protective hood
ArcPro-GLV-33	33 cal/cm ² arc flash protective gloves
ArcPro-Leg-33	33 cal/cm ² arc flash protective leggings

CAT 3 25CAL Arc Flash Suit

Model: ArcPro-Suit-25
ATPV: 25 cal/cm²
Material: C&G Arcpro® Inherently flame resistant fabric
Description: Inherently flame resistant and its protection cannot be washed out or worn away, multilayer combination is lighter than flame retardant cotton-nylon blended garments, reducing the hazards of electric arc.
 Flame retardant reflective tapes can be added to make it highly visible.
Color: Medium blue
Standard: ASTM F1959, ASTM F2621,NFPA 70E, IEC 61482-1-1, EN ISO 11612:2015, EN 1149-5:2018, DL/T320-2019, GB 8965.1-2020

Model	Description
ArcPro-Robe-25	25 cal/cm ² arc flash protective robe
ArcPro-J-25	25 cal/cm ² arc flash protective jacket
ArcPro-P-25	25 cal/cm ² arc flash protective pants
ArcPro-Bib-25	25 cal/cm ² arc flash protective bib-overall
ArcPro-C-25	25 cal/cm ² arc flash protective coverall
ArcPro-Hood-25	25 cal/cm ² arc flash protective hood
ArcPro-LHood-25	25 cal/cm ² arc flash protective Lift-Front hood
ArcPro-GLV-25	25 cal/cm ² arc flash protective gloves
ArcPro-Leg-25	25 cal/cm ² arc flash protective leggings



Arc Flash Protective Clothing

CAT 3 25CAL Arc Flash Lift-Front Arc Hood



Model: ArcPro-LHood-25
ATPV: 25cal/m²
Material: C&G Arcpro® inherently flame resistant fabric
 Shield-Polycarbonate, Bracket- Nylon
Description: Lift-front technology allows for enhanced breathability and communication. Toric lens design and nanoparticle grey color provide excellent field of view, enhanced color recognition, and reduced internal glare. Premium anti-fog & anti-abrasion coated. It is used in association with dielectric head protection and accessories to provide protection from the hazards of electric arc.
Color: Fabric- Medium blue, Shield- Grey, Bracket- Blue
Standard: ASTM F2178, ASTM F1959, DL/T 320-2019

CAT 2 12CAL Arc Flash Suit

Model: ArcPro-Suit-12
ATPV: 12 cal/cm²
Material: C&G Arcpro® Inherently flame resistant fabric
Description: Inherently flame resistant and its protection cannot be washed out or worn away.
 Flame retardant reflective tapes can be added to make it highly visible
Color: Navy blue, Orange
Standard: ASTM F1959, ASTM F2621,NFPA 70E, IEC 61482-1-1, EN ISO 11612:2015, EN 1149-5:2018, DL/T320-2019, GB 8965.1-2020

Model	Description
ArcPro-Robe-12	12 cal/cm ² arc flash protective robe
ArcPro-J-12	12 cal/cm ² arc flash protective jacket
ArcPro-P-12	12 cal/cm ² arc flash protective pants
ArcPro-S-12	12 cal/cm ² arc flash protective shirt
ArcPro-C-12	12 cal/cm ² arc flash protective coverall
ArcPro-FS-12	12 cal/cm ² arc flash protective face shield
ArcPro-LHood-12	12 cal/cm ² arc flash protective Lift-Front hood
ArcPro-GLV-12	12 cal/cm ² arc flash protective gloves
ArcPro-Leg-12	12 cal/cm ² arc flash protective leggings



Arc Flash Protective Clothing



CAT 2 12CAL Arc Flash Lift-Front Hood

Model: ArcPro-LHood-12
ATPV: 12cal/m²
Material: C&G Arcpro® inherently flame resistant fabric
 Shield-Polycarbonate, Bracket- Nylon
Description: Lift-front technology allows for enhanced breathability and communication. Toric lens design and nanoparticle grey color provide excellent field of view, enhanced color recognition, and reduced internal glare. Premium anti-fog & anti-abrasion coated. It is used in association with dielectric head protection and accessories to provide protection from the hazards of electric arc.
Color: Fabric- Navy blue, Orange, Shield- Grey, Bracket- Blue
Standard: ASTM F2178, ASTM F1959, DL/T 320-2019

CAT 2 14CAL Arc Flash Face Shield

Model: ArcPro-Shield-14GS
ATPV: 14cal/cm²
Description: Nanoparticle grey color provides excellent field of view and enhanced color recognition. Excellent downward vision with transparent chin protector. It is used in association with dielectric head protection and accessories to provide protection from the hazards of electric arc.
Standard: ASTM F2178, NFPA70E



Model	Description
ArcPro-Shield-14GS	14 cal/cm ² arc flash protective face shield, grey



CAT 2 11CAL Arc Flash Face Shield

Model: EcoArc-2
ATPV: 11cal/cm²
Description: Nanoparticle grey color provides excellent field of view and enhanced color recognition. Excellent downward vision with transparent chin protector. It is used in association with dielectric head protection and accessories to provide protection from the hazards of electric arc.
Standard: ASTM F2178, NFPA70E

Model	Description
EcoArc-2	11 cal/cm ² arc flash protective face shield, grey

Arc Flash Protective Clothing

15cal Arc Flash Face Shield

Model: AMP1-15T
ATPV: 15cal/cm²
Description: Nanoparticle grey color provides excellent field of view and enhanced color recognition. Excellent downward vision with transparent chin protector. It is used in association with dielectric head protection and accessories to provide protection from the hazards of electric arc.
Application: Electric power, distribution cabinet, new energy vehicle manufacturing, power maintenance, etc., there are arc-hazardous working environments
Standard: ASTM F2178/F2178M-20



CAT 2 8CAL Arc Flash Suit

Model: ArcPro-Suit-8
ATPV: 8 cal/cm²
Material: C&G Arcpro® Inherently flame resistant fabric
Description: Inherently flame resistant and its protection cannot be washed out or worn away. Flame retardant reflective tapes can be added to make it highly visible
Color: Dark blue, Medium blue, Grey, Orange
Standard: ASTM F1959, ASTM F2621, NFPA 70E, IEC 61482-1-1, EN ISO 11612:2015, EN 1149-5:2018, DL/T320-2019, GB 8965.1-2020

Model	Description
Arcpro-J-8	8 cal/cm ² arc flash protective jacket
Arcpro-P-8	8 cal/cm ² arc flash protective pants
Arcpro-S-8	8 cal/cm ² arc flash protective shirt
Arcpro-C-8	8 cal/cm ² arc flash protective coverall
Arcpro-FS-10	10 cal/cm ² arc flash protective face shield
Arcpro-GLV-8	8 cal/cm ² arc flash protective gloves

Electrical Insulating PPE



CAT 1 6CAL Arc Flash Suit

Model: ArcPro-Suit-6
ATPV: 6 cal/cm²
Material: C&G Arcpro® Inherently flame resistant fabric
Description: Inherently flame resistant and its protection cannot be washed out or worn away. Flame retardant reflective tapes can be added to make it highly visible.
Color: Medium blue
Standard: ASTM F1959, ASTM F2621,NFPA 70E, IEC 61482-1-1, EN ISO 11612:2015, EN 1149-5:2018, DL/T320-2019, GB 8965.1-2020

Model	Description	Model	Description
Arcpro-J-6	6 cal/cm ² arc flash protective jacket	Arcpro-C-6	6 cal/cm ² arc flash protective coverall
Arcpro-P-6	6 cal/cm ² arc flash protective pants	Arcpro-GLV-6	6 cal/cm ² arc flash protective gloves
Arcpro-S-6	6 cal/cm ² arc flash protective shirt		

Leather Protective Gloves

Model: Live-GL10
Material: Goat Skin
Description: Soft, deft, comfortable, adjustable tightness
Standard: EN 388

Grade	Length	Thickness	Color
Live-GL10	25mm	0.7mm	White
Live-GL11.5	29mm	0.7mm	White
Live-GL12.5	31mm	0.7mm	White



Insulating Sleeves

Model: Live-SIV1-2
Material: Natural Latex
Description: Curved elbow sleeves, Protect workers from electrical shock. These sleeves are intended to use exclusively for electrical purposes.
Standard: EN 60984/ASTM D1051-14a

Electrical Insulating PPE

Insulating Boots

Model: DBS4
Voltage grade: Test Voltage: 20KV ESR: 18KV
Description: Waterproof, abrasion resistant, durability, steel toe cap, steel shank, chemical resistance.
Application: For working environment with high voltage hazards
 Power stations operations
 Substation (step-up/step-down/distribution) operations
 Electrical hazards with wet condition / water exposure
 High current leakage hazards
 Electrical installations.
Standard: EN 20345/EN 5032/CSA Z 195/ASTM-1117 ASTM F 2413/GB 12011



EURO	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
UK	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
US	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Multifunctional Kit Bag

Model:	Description
CG-X502	600D orange nylon oxford, waterproof and wear-resistant With shoulder straps detachable, and bottom antiskid and wear-resistant. Dimension: 42*23*31cm and 60*35*31cm



Arc Flash Protective Kits



65ca/cm² Arc Flash Protective Clothing Kit

Model: ArcPro-Kit-65

1. 65cal/cm² arc flash protective jacket
2. 65cal/cm² arc flash protective bib-overall
3. 65cal/cm² arc flash protective hood
4. 65cal/cm² arc flash protective gloves
5. Safety helmet-ABS material
6. Insulating gloves
7. Multifunctional kit bag

55cal/cm² Arc Flash Protective Clothing Kit

Model: ArcPro-Kit-55

1. 55cal/cm² arc flash protective robe
2. 55cal/cm² arc flash protective hood
3. 55cal/cm² arc flash protective gloves
4. 55cal/cm² arc flash protective leggings
5. Safety helmet-ABS material
6. Insulating gloves
7. Multifunctional kit bag



45cal/cm² Arc Flash Protective Clothing Kit

Model: ArcPro-Kit-45

1. 45cal/cm² arc flash protective Jacket
2. 45cal/cm² arc flash protective bib-overall
3. 45cal/cm² arc flash protective hood
4. 45cal/cm² arc flash protective gloves
5. Safety helmet-ABS material
6. Insulating gloves
7. Multifunctional kit bag

33cal/cm² Arc Flash Protective Clothing Kit

Model: ArcPro-Kit-33

1. 33cal/cm² arc flash protective robe
2. 33cal/cm² arc flash protective hood
3. 33cal/cm² arc flash protective gloves
4. 33cal/cm² arc flash protective leggings
5. Safety helmet-ABS material
6. Insulating gloves
7. Multifunctional kit bag



Arc Flash Protective Kits

25cal/cm² Arc Flash Protective Clothing Kit

Model: ArcPro-Kit-25

1. 25cal/cm² arc flash protective Jacket
2. 25cal/cm² arc flash protective pants
3. 25cal/cm² arc flash protective Hood
4. 25cal/cm² arc flash protective gloves
5. Safety helmet-ABS material
6. Insulating gloves
7. Multifunctional kit bag



12cal/cm² Arc Flash Protective Clothing Kit

Model: ArcPro-Kit-12

1. 12cal/cm² arc flash protective jacket
2. 12cal/cm² arc flash protective pants
3. 14cal/cm² arc flash protective face shield
4. 12cal/cm² arc flash protective gloves
5. Safety helmet-ABS material
6. Insulating gloves
7. Multifunctional kit bag

8cal/cm² Arc Flash Protective Clothing Kit

Model: ArcPro-Kit-8

1. 8cal/cm² arc flash protective jacket
2. 8cal/cm² arc flash protective pants
3. 11cal/cm² arc flash protective face shield
4. 8cal/cm² arc flash protective gloves
5. Safety helmet-ABS material
6. Insulating gloves
7. Multifunctional kit bag



Conductive Suit

500kV Conductive Suit

Model: SC-JP-500kV

Description: Made of metal fiber and high-performance flame resistant fiber.

With excellent and stable performance, it can be applied to equipotential 500kV and below live work

The whole set includes jacket & pants, conductive gloves, conductive socks, conductive shoes and kit bag.

Standard: GB/T6568-2008

Application: Accessories including gloves, socks, shoes used with conductive suit.



CE-G-001



CE-SK-002



CE-SE-003



1000kV Conductive Suit

Model: SC-C-1000kV

Description:

1. Made of metal fiber and high-performance flame resistant fiber.
2. Through the genetic arrangement of metal fibers, improving the resistance value of the fabric diversion parts to avoid serious scorching and carbonization of fabrics. With excellent and stable performance, it not only can be used in 1000kv live work, but also can be applied to live work on UHV electrical equipment with a voltage higher than 1000kv.
3. The whole set includes coverall, conductive gloves, conductive socks, conductive shoes and kit bag.

Standard: GB/T25726-2020, DL/T 392-2015

500kV AC High Voltage Electrostatic Protective Clothing

Model: HVS-JP-500kV

Description: Blended interweaving of metal fiber and textile fiber Suitable for AC transmission lines with rated voltages of 750kv, 500kv and below Road and substation inspectors and ground potential workers wear

The fabric has excellent performance, which can effectively protect the line and substation inspection and ground potential workers Protected from high voltage electric fields

The whole set includes jacket, trousers, conductive gloves, conductive socks, conductive travel shoes, suit bag

Standard: GB/T18136-2008



CE-G-001



CE-SK-002



CE-SE-003

Firefighting Suit



Firefighter Turnout Gear

Model: ZFMH-CG A(DRD)

Material: Outer layer: Nomex® and Kevlar® inter-woven fabric
Heat insulation: Aramid felt covered by FR PTFE film, waterproof and breathable

Comfort layer: Nomex® and FR Viscose blend

Description: Overall structure: composed of three layers: outer layer, waterproof and breathable layer, and comfortable layer; Configure life-saving towing belt

Function: the outer layer fabric is carbonized and thickened under high temperature, increasing the protection between the heat source and the skin

Barrier, no molten dripping, four-layer structure has good overall thermal protection performance, has extremely Excellent wear resistance and tear resistance, as well as water and oil repellency, chemical corrosion resistance, etc.

Combined with the waterproof and breathable layer and heat insulation layer in the middle, water droplets cannot penetrate, and it has excellent comprehensive performance.

Protective performance, comfortable to wear, durable, ergonomic design, suitable for firefighters

Body Protection in Fire Fighting Work

Standard: EN 469:2020, XF 10-2014



Firefighting Suit



Firefighter Turnout Gear

Model: ZFMH-CG H (DRD)
Description: Composed of three layers including outer layer, waterproof and breathable layer, and comfort layer, equipped with a life-saving towing belt.
Fabric: Outer layer: Aramid 1313 and Aramid 1414 blend
Waterproof and breathable layer: Aramid felt with FR PTFE film
Comfort layer: Aramid and FR Viscose blend
Feature: The outer fabric carbonizes and becomes thicker at high temperatures, increasing the protective barrier between the heat source and the skin, without melting drops, with excellent wear resistance and tear resistance, as well as waterproof, oil-repellent, and chemical corrosion resistance. With the waterproof and breathable layer in the middle, water droplets cannot penetrate, and it has excellent comprehensive protection performance. It is comfortable and durable to wear, ergonomically designed, and the overall thermal protection performance TPP value is 34.9cal/cm², which is suitable for firefighters' body protection during fire fighting.
Standard: EN 469:2020, XF 10-2014

Type 20 Firefighting Emergency Rescue Suit

Model: RJF-F-1C
Materia: Made of single-layer fabric, double tissue interwoven with Nomex and flame-retardant viscose fibers.
Description: Anti-static, flame retardant, lightweight, strong tensile strength and other properties
Flame retardant performance: afterburning time 0s, no melting or dripping phenomenon
Surface anti-moisture performance: after washing 5 times, the water stain level shall not be lower than level 3
Mechanical properties: breaking strength>900N, tearing strength>200N, seam strength>600N
Thermal stability: After thermal stability test at (180±5)°C, dimensional change rate of fabrics and reinforcement materials at shoulders, knees, hips, elbows, etc. along the warp and weft directions is 0, and there is no obvious change in the product surface
Application: Suitable for firefighters to wear during emergency rescue operations, such as earthquakes, mudslides, and mass, Used in situations such as distress and road traffic accidents
Standard: XF 633-2006



Firefighting Suit

Firefighting Covering

Model: FGR-L/A
Material: 3 layers laminated aluminized fabric
Description: Soft and comfortable
 Light weight to carry, only 0.6KG and easy to don and doff
 Special mirror reflective technic, suitable for proximity fire rescue under industrial radiant heat up to 900°C for 15 minutes.
Application: Proximity fire rescue
 Searching after fire accident and do cutting operation
 Fire extinguishing in narrow space like tunnel, underground tunnel, etc.
 Rescue in high temperature
Standard: EN 11612 : 2015, GB 8965. 1-2020



Fabric Property	Value	Testing Method	Fabric Property	Value	Testing Method
Breaking Force(warp)	≥1050N	ISO 1421-1	Tearing Force(weft)	≥30N	ISO 4674-2
Breaking Force(weft)	≥800N	ISO 1421-1	Flame retardation	Afterglow≤2s	ISO 15025
Tearing Force(warp)	≥20N	ISO 4674-2	Flame retardation	Afterflame≤2s	ISO 15025



Thermal Insulation Clothing

Model: FGR-F/A
Material: Imported heat-insulating aluminum-clad fabric
Description: The fabric feels soft
 Fabric composite innovation technology makes it extremely difficult to peel off the aluminum film and the substrate, and the fabric is resistant to 4000 times
 The heat-insulating hood screen is made of imported gold-plated polycarbonate material; it can resist 120m/s
 High-speed particle impact; reflect high-temperature radiation heat above 1000°C, reflect high-temperature heat
 More than 95% radiation
Application: Fire fighting and emergency rescue in high temperature environment
Standard: XF 634-2015, EN 11612: 2015

Fire Protection-Dupont® Nomex® IIIA

Fire Protection-Dupont® Nomex® IIIA

Dupont® Nomex® IIIA is composed of 93% 1.7 decitex Dupont® Nomex® meta-aramid, 5% Dupont® Kevlar® para-aramid and 2% antistatic fiber. This innovative solution expands to form a stable and inert barrier between the fire and skin, which gives wearers the valuable seconds they need to help them escape from the hazard.

It is one of the best products for flame retardant and heat resistant protection. It is widely used all over the world, especially for Petroleum, Oil & Gas, Chemical industry, Paint and other environments where flash fire may occur. Many of firefighters, racing drivers, U.S. military personnel and even astronauts wear protective garments made of Nomex® IIIA fabric.

Why do we choose C&G® Nomex® IIIA flame retardant garments?

Nomex® is inherently flame retardant. The fiber cannot be burned itself, so the protection is permanent. Since the protection comes from the fiber itself, it will not get weak after times of washing and usage. When exposed to fire, Nomex® fiber will get swelled and thicker to form a protective barrier between heat source and body. The protective barrier will last until the garment cools down so that people will have valuable seconds to escape.

For the flame retardant fabric treated by chemicals, its FR performance comes from the chemicals on the surface of the fabric. When exposed to flash explosion, the chemicals will react to extinguish fire. The reaction depends on the fire energy and the time of the fabric exposed to the fire.

With the increasing of time and energy, the flame retardant chemical will be induced to react, and the burned degree will be obviously increased. The chemicals and fabric will cause vigorous slash fire, hot gas, smoke and tar, which will hazard the body seriously.

01 Unique protective barrier to high temperature and flame

When exposed to high temperature continuously, Dupont® Nomex® IIIA fiber will carbonize and get thicker to prevent heat conduction between heat source and body to increase protection and reduce burn injury (See Pic.1). The strong protective barrier will keep soft and tough until the garment cools down. It will provide time for the user to escape.

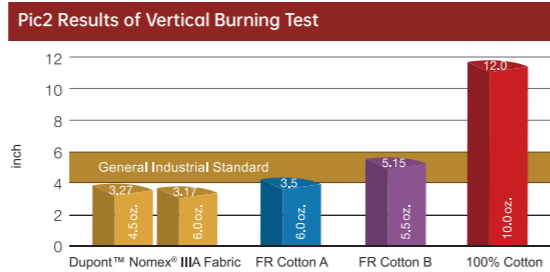
Pic1 It shows that Dupont® Nomex® IIIA garment will carbonize and get thicker when exposed to high temperature and flame.



The picture shows theoretical thickness According to the assembling procedure of single fabric suggested by ASTM D-4108 Thermal protective performance tests (TPP)

02 Excellent performances in Vertical Burning Test

Dupont® Nomex® IIIA flame retardant fabric can easily pass Vertical Burning Test (A basic flame retardant test which tests if the fabric will be lighted and burned after being exposed to fire for 12 seconds). Most protective fabric can pass Vertical Burning Test, but 100% Cotton, CVC and TC fabric will be lighted and cannot pass the test (See Pic.2).



FTMS 191 A; 5903.1. All fabrics were washed one time

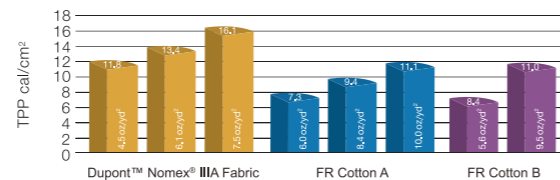
03 Outstanding performances in Thermal Protective Performances (TPP) Test

TPP tests the protective performance of the fabric in deflagration. The higher the TPP value is, the better the protective performance is.

TPP test shows that Dupont® Nomex® IIIA fabric performs much better than chemical-treated FR fabric, and even lighter Dupont® Nomex® IIIA fabric performs better than heavier chemical-treated FR fabric (See Pic.3).

Pic3 TPP Test Results of Single Fabric

The higher the TPP value is, the better the protective performance is.



Fire Protection-Dupont® Nomex® IIIA

04 Excellent wear-resistant, tear-resistant and chemical-resistant performance

Nomex® IIIA fabric performs much better than 100% Cotton, CVC and TC fabric in wear-resistance and tear-resistance, and it will make the garments with a longer life.

Besides, Nomex® IIIA fabric is chemical-resistant, it resists most of inorganic chemicals and organic solvent, thus it is anti-corrosion and aging-resistant. In different industrial area, the chemical-resistant performance enhances the durability of the garments, and the garments could be washed by organic solvent to remove the flammable contaminants without affecting the life span of the garments.

1. The chemical-resistant performance refers that the fiber can resist the degradation instead of the penetration of chemicals. The fabric of Dupont® Nomex® IIIA which is covered or coated by certain materials could be used to prevent the penetration of chemicals.
2. Originated from STP1133 of ASTM.

05 Unique economy and durability

Generally, the durability of Dupont® Nomex® IIIA fabric is 3 to 5 times better than other protective fabrics (including 100% Cotton, CVC, TC and FR Cotton fabric). Besides, the flame resistance of Dupont® Nomex® IIIA fabric is permanent and will not get weak after times of washing and usage.

Chart1 lists the durability of different FR garments.

Chart1 Durability Parameters of FR Protective Garments				
The higher the value is, the better the durability is.				
Fabric	Strength of Extension (LB) ASTM D-5034	TRAP Tear Strength (LB) FTMS 191B-5136	ELEMENDORF Tear Strength (LB) ASEM D-1424	TABER Friction ASEM D-3884
150g/m² NOMEX® IIIA fabric	143	30	6	688
200g/m² NOMEX® IIIA fabric	212	38	10	1213
200g/m² certain brand FR Cotton	88	5	4	595
300g/m² certain brand FR Cotton	124	8	7	688
186g/m² certain brand FR Cotton	58	8	5	330
300g/m² certain brand FR Cotton	107	14	7	610

06 The fabric is light and comfortable

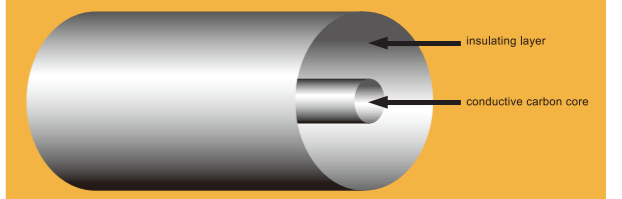
As per trying experiment, the weight of garments affects the degree of comfort. Dupont® Nomex® IIIA garments are with high strength, good durability and fine breathability. And light fabric could be used to make more comfortable garments. Dupont® Nomex® IIIA garments are with good breathability. It will promote air flow so that the energy of body could scatter fast. There is a special moisture-absorbing component which is widely used in sportswear used by top tennis sportsmen. This kind of component will absorb the moisture on the surface of skin and transfer it to larger surface areas by

fiber to make it evaporate fast, which helps users feel dry and comfortable.

07 Professional static control

Dupont® Nomex® IIIA fabric integrates P-140 - a kind of static-eliminated fiber with patent, which could reduce the static caused by the friction between two garments or garments and the surface of other objects (See Pic. 4). P-140 is used to reduce harmful static and make garments more comfortable to wear. Meanwhile, it also can reduce the accumulation of the static on the surface of body.

Pic.4 Dupont™ Nomex® IIIA fabric includes P-140 – a kind of high-performance static-eliminated fiber with patent.



08 Good protection under the condition of low temperature

Water can eliminate static by conducting electricity, so many of natural or synthetic fiber are anti-static by absorbing moist gas. But the natural fiber like wool, cotton and synthetic fiber will lose anti-static performance under low temperature. However, Dupont® Nomex® IIIA fabric will keep fine anti-static performance even under the condition of low temperature. It is mainly because of P-140 fiber in Dupont® Nomex® IIIA fabric, which keeps the fabric anti-static even under the humidity of 20 Electric Charge Decay Test and in the process of wearing.

Chart2 The results of anti-static decay test

Fabric	#Washing Times	kV Acceptable Voltage	Time to achieve 10% initial acceptable voltage/seconds
150g/m² NOMEX® IIIA	0	3.95	0.01
	25	3.75	0.02
	50	3.45	0.01
	75	3.15	0.02
	100	3.10	0.01
100% FR Cotton	150	3.10	0.02
	0	3.25	>10
	25	2.00	>10
100% Cotton	50	1.60	>10
	0	4.31	2.2
	25	2.50	>10
65% Cotton	50	2.33	>10
	0	4.90	4.3
	25	2.20	>10
100% Cotton	50	2.25	>10

According to US Test Standard 191A (Method 5931), to put the fiber between two parallel electrodes. When 5kV charge passes, the fiber can hold at least 3kV. And the fiber needs to discharge until to achieve only 10% initial charge within 0.5 seconds when it touches the ground. The test is under 70F (21°C) and 20% RH.

The real case shows that it will produce enough static energy on the surface of body when taking off the outer wear. The spark produced in the process of static release is strong enough to light flammable steam or air mixture.

Military Clothing

Flight Suit (CWU-27/P)

Model: NM-F150-S, NM-F200-S

Material: 150/200 g/m² (4.5/6.0 oz/yd²) Dupont® Nomex® IIIA / Aramid IIIA fabric

Description: Inherently and permanently flame resistant

Do not melt, burn, drip or support combustion in air.

Front opening with two-way FR metal zipper Gusseted back for convenient action

Adjustable cuffs and waist belt with Velcro fastener

Ankle opening by zipper to adjust width of leg 5*10cm Velcro on left chest used to fasten name tag 8 FR zippered pockets: 2 slant chest pockets, 1 pen pocket (3 compartments) on left sleeve, 2 pockets on upper legs, 1 knife pocket on left leg, 2 pockets on lower legs

Application: Air force and aviation (to protect aircrew from any flash fires and its anti-static fiber is used to minimize electrostatic accumulation).

Color: Sage green, Navy blue, Royal blue, Orange, Black, Khaki, Red, etc.

Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018



Flight Suit (MK15)

Model: NM-FE150-S, NM-FE200-S

Material: 150/200 g/m² (4.5/6.0 oz/yd²) Dupont® Nomex® IIIA / Aramid IIIA fabric

Description: Inherently flame resistant

92% meta-aramid, 5% para-aramid, 3% conductive fibers

Ergonomic design to provide maximum maneuverability and conform for wearer.

Two breast pockets with with zip fastening for additional security.

Two lower leg bellow pockets with flap for easy access when in sitting position.

Padded pen pocket on left sleeve positioned for easy access.

Adjustable cuff tab at sleeve with FR velcro to ensure safe and comfortable fit.

Front fastening with heavy duty 2-way zip.

Legs openings secured with zips to allow easy donning.

Two side pockets positioned at hips with access.

Application: Air force and aviation (to protect aircrew from any flash fires and its anti-static).

Color: Sage green, Navy blue, Royal blue, Orange, Black, Khaki, Red, etc.

Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018

Military Clothing

Tanker Suit

Model: NM-TK150-S, NM-TK200-S

Material: 150/200 g/m² (4.5/6.0 oz/yd²) Dupont® Nomex® IIIA / Aramid IIIA fabric

Dupont® Nomex® IIIA / Aramid IIIA fabric

Description: Two way full front FR metal zipper with puller

Two slash chest pockets fastened by Velcro

One pen pocket fastened by Velcro on left sleeve

Two pockets on upper legs

Adjustable cuffs, waist belt and leg opening with Velcro fastener

DRD (Drag Rescue Device) strap concealed by Velcro fastener on the back

Two side zippers and Velcro closure across back for easy access in emergency

Ranker holder on shoulders

Self-fabric reinforced elbows and rump

Application: Used as the protective clothing during tank driving.

Color: Sage green

Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018



Flight Jacket & Pants

Model: NM-FJ/P150-S, NM-FJ/P200-S

Material: 150/200 g/m² (4.5/6.0 oz/yd²) Dupont® Nomex® IIIA / Aramid IIIA fabric

Description: Inherently and permanently flame resistant

Do not melt, burn, drip or support combustion in air.

Front opening with two-way FR metal zipper Gusseted back for convenient action

Adjustable cuffs and waist belt with Velcro fastener

Ankle opening by zipper to adjust width of leg

5*10cm Velcro on left chest used to fasten name tag

8 FR zippered pockets: 2 slant chest pockets, 1 pen pocket (3 compartments) on left sleeve, 2 pockets on upper legs, 1 knife pocket on left leg, 2 pockets on lower legs

Application: Air force and aviation (to protect aircrew from any flash fires and its anti-static fiber is used to minimize electrostatic accumulation).

Color: Sage green, Navy blue, Royal blue, Orange, Black, Khaki, Red, etc.

Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018

Military Clothing



Nomex Flight Winter Jacket (CWU-45/P)

Model: NM-WJ150-S, NM-WJ200-S
Material: Outer Shell Material Nomex IIIA® by DuPont®, 6oz 200gsm or 4.5oz 150gsm
Description: Two fully-lined front cargo pockets with Velcro-closure flaps
 Quilted lining with fiber fill insulation for warmth
 Heavy-duty Mil-Spec zipper over a storm flap
 Velcro chest plaque for attaching a military name plate
 One inside pocket
 Pencil pocket on left sleeve.
Application: Air force and aviation in cold weather.
Color: Sage green, Navy blue, Royal blue, Orange, etc.
Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018

Nomex Flight Summer Jacket (CWU-36/P)

Model: NM-J150-S, NM-J200-S
Material: Outer Shell Material Nomex IIIA® by DuPont®, 4.5oz 150gsm or 6oz 200gsm
Description: Two fully-lined front cargo pockets with Velcro-closure flaps
 Heavy-duty Mil-Spec zipper over a storm flap
 Velcro chest plaque for attaching a military name plate
 One inside pocket
 Pencil pocket on left sleeve.
Application: Air force and aviation (to protect aircrew from any flash fires and its anti-static).
Color: Sage green, Navy blue, Royal blue, Orange, etc.
Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018



Flight Gloves



Model: NM-GLV-001, NM-GLV-002
Material: 260 g/m² (7.6 oz/yd²)
 Dupont® Nomex®/Aramid fabric
Description: Goat skin leather, Nomex Knitting fabric
 Length: 32 cm
Net weight: 90 gsm
Application: Air force and aviation
 To protect aircrew from any flash fires and its anti-static fiber is used to minimize electrostatic accumulation
Color: Sage green, Black, Beige, etc
Standard: EN11612 : 2015, EN1149-5:2018

Military Clothing



MA-1 Flight Jacket

Model: BP-J-180
Material: Outer Fabric: 100% Nylon, sage green
Lining: 100% Polyester, orange
Inner shell: Polyester Fiberfill, 150g
Description: Fully reversible with rescue orange color inner shell
 Nylon knitted collar, waistband and cuffs
 #8 heavy duty metal zipper with reversible puller on front opening
 Two slant insert pockets on hem and one pen pocket on left arm
Application: Aviation in cold weather, reversible with highly visible orange color for emergency.
Color: Sage green, Black, Navy blue, etc.
Standard: EN13688:2013

Classic B-15 Winter Jacket

Model: BP-J-200
Material: Outshell 100% Nylon twill fabric
 Padding 100% Polyester with wool fiber
Description: Detachable wool collar
 Two slant insert pockets on hem and one pen pocket on left arm
 Elastic hem and cuffs High quality zipper
 Knitted cuffs and hem for wind protection and warmth
 Soft and comfortable, keeping warm
 High strength nylon fabric, good wear resistance, windproof and waterproof, comfortable and keeping warm.
 Detachable wool collar to meet the different thermal demand of pilots.
Application: Air force and aviation in cold weather.
Color: Navy blue, Black, etc.
Standard: EN13688:2013



G-1 Flight Jacket

Model: BP-FJ550-D
Material: Brown goatskin
 Brown mouton fur collar, YKK Zipper
 100% Bemberg rayon lining
 100% wool rib rack knit cuffs and waistband
Description: Bi-swing pleated back, Gusset sleeves
 Large front pockets, Mouton fur collar
 Non-removable genuine mouton fur collar with button closure
 A convenient hidden pencil pocket and underarm gussets with vent holes elastic waistband and a bi-swing back design
Application: Air force and aviation in cold weather.
Color: Dark Brown
Standard: GB18401-2010



Military Clothing



Flight Jacket for Spring

Model: BP-FJ-200
Material: High-density polyester
Description: TMainly made of high-density polyester, with good wear-resistance and high strength
 Durable and not easy to fade
 Hi-vis orange lining, easy to be searched and rescued in case of danger
 Double-needle sewing to avoid tearing
Application: Suitable for aviation industry, pilots' daily workwear, etc
Color: Sage green color, and other colors can be customized
Standard: EN13688:2013

Technical Flight Coverall

Model: BP-FC-235
Material: Polyester Cotton
Description: The main material is polyester-cotton, which has good wear resistance and high strength
 Durable and does not fade. Multi-pocket functional design, convenient and practical
 Double-needle sewing to avoid tearing
Application: Applicable to aviation ground handling industry, technical maintenance, logistics warehousing and transportation, etc
Color: Sage green, other colors can be customized
Standard: EN13688:2013



Ordinary Flight Jacket and Pants

Model: BP-FJ/P-235
Material: polyester and cotton, which has good wear resistance and high strength
Description: Durable and does not fade
 Multi-pocket functional design, convenient and practical
 Double sewing to avoid tearing
Application: Applicable to ground handling industry in aviation field, technical maintenance, logistics warehousing and transportation, etc.
Color: military green, other colors can be customized
Standard: EN13688:2013

Military Clothing



Ordinary Training Suit

Model: BP-FT-200
Material: 100% Cotton
Description: The main material is cotton fabric, which is sweat-absorbent and breathable, and does not cause sweat;
 Skin-friendly and delicate, soft and comfortable;
 Easy to put on and take off, not easy to deform
Application: Applicable to the aviation industry, pilots' daily physical training suits, etc
Color: military green, other colors can be customized
Standard: EN13688:2013

Waterproof Rain Jacket and Pants

Model: BP-RJ-230
Material: Rain Jacket is composed of waterproof Nylon-coated materials
Description: Waterproof, Breathable, Durable,
 Product material: 230g Nylon + PTFE membrane + Polyester knitted fabric
Application: Air force
Color: Sage green
Standard: GB 18401-2010



Flight Cap

Model: BP-FCap-235
Material: Polyester cotton
Description: The main material is polyester cotton, which has good wear resistance and high strength
 The cap shell is made of HDPE material and EVA anti-collision pad, which has good impact resistance and is safer. Durable and no fading
Application: It is suitable for the aviation ground handling industry, technical maintenance, logistics warehousing and transportation, etc
Color: Sage green, other colors can be customized
Standard: EN13688:2013, EN812:2012

Flame Resistant Clothing

Nomex® IIIA Coverall

Model: NM-C-150, NM-C-200
Material: Nomex® IIIA / Aramid IIIA fabric
Fabric Weight: 150g/m²(4.5oz/yd²), 200 g/m²(6oz/yd²)
Description: Concealed two-way, heavy duty metal FR zippers and Metal buttons.
 Nomex FR thread; Two chest pockets and two back pockets;
 Elasticized waistband; 2.5cm/5cm FR Reflective tapes on arms and legs.
Color: Red, Yellow, Orange, Royal Blue, Tan, Navy Blue, etc.
Standard: NFPA 2112, CE, EN11612 : 2015, EN1149-5 : 2018



Nomex® IIIA Shirt and Pants

Model: NM-S/P-150, NM-S/P-200
Material: Nomex® IIIA / Aramid IIIA fabric
Fabric weight: 150g/m²(4.5oz/yd²), 200 g/m²(6oz/yd²)
Description: Inherently and permanently flame resistant
 Anti-static, neither melts nor drips
 Soft, comfort and easy to maintain
Application: Oil and Gas, Petroleum, Chemical, Paint, etc.
Remark: With or without FR reflective tapes, YKK or FR metal zipper
Color: Orange, Royal blue, Navy blue, Red, Yellow, etc.
Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018



Nomex® IIIA Jacket and Pants

Model: NM-J/P-200
Material: Nomex® IIIA / Aramid IIIA fabric
Fabric weight: 200 g/m²(6oz/yd²)
Description: Inherently and permanently flame resistant
 Anti-static, neither melts nor drips
 Soft, comfort and easy to maintain
Application: Oil and Gas, Petroleum, Chemical, Paint, etc.
Remark: With or without FR reflective tapes, YKK or FR metal zipper
Color: Orange, Royal blue, Navy blue, Red, Yellow, etc.
Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018

Flame Resistant Clothing

Nomex® IIIA Winter Jacket

Model: NM-WJ-200
Material: Nomex® IIIA for outshell and 3M Thinsulate for Innershell
Fabric weight: 200 g/m² (6 oz/yd²)
Description: Inherently and permanently flame resistant
 Anti-static, neither melts nor drips
 Soft, comfort and easy to maintain
Application: Oil and Gas, Petroleum, Chemical, Paint, etc.
Remark: With or without FR reflective tapes, YKK or FR metal zipper
Color: Orange, Royal blue, Navy blue, Red, Yellow, etc.
Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018



Nomex® Balaclava

Model: NM-Hood-1
Material: 200 g/m² 100% Nomex
Description: Inherently and permanently flame resistant
 Anti-static, neither melts nor drips
 Soft, comfort and easy to maintain
Application: Oil and Gas, Petroleum, Chemical, Military, Police, Rescue, etc.
Remark: Single layer or double layers
Color: White, Black
Standard: NFPA 2112, EN11612 : 2015



Nomex® Knitted Neck Gaiter

Model: NM-NG-1
Material: 200 g/m² 100% Nomex
Feature: Inherently and permanently flame resistant
 Anti-static, neither melts nor drips
 Soft, comfort and easy to maintain
Application: Oil and Gas, Petroleum, Chemical, Paint Military, Police, Rescue, etc.
Remark: Single layer or double layers
Color: White, Black
Standard: NFPA 2112, EN11612 : 2015

Flame Resistant Clothing

Nomex® Gloves

Model: NM-GLV-200
Material: 200g/m² 100% Nomex
Description: Inherently and permanently flame resistant
 Anti-static, neither melts nor drips
 Soft, comfort and easy to maintain
 Oil and Gas, Petroleum, Chemical, Paint, Military, Police, Rescue, etc.
Remark: Single layer or double layers
Color: White, Black
Standard: EN407 : 2020



Flame Resistant Raincoat

Model: FRP-CT/P-235
Material: 98%polyester 2%anti-static fiber, PU Coated
Fabric Weight: 235 g/m²
Accessories: FR Zipper, FR Thread ,with 5cm FR refelective tapes on waist, shoulder, sleeves
Description: Flame resistant, Waterproof.
Color: Fluorescent Yellow/Navy
Standard: NFPA 2112, EN11612 : 2015, EN1149-5 : 2018, EN343:2003



100% FR Cotton/nylon-coverall

Model: FRC-C-330
Material: Flame retardant 100% Cotton
Fabric weight: 330g/m²
Description: Moisture-absorbing, breathable, comfortable and durable
Application: Oil and Gas, Petroleum, Chemical, Paint, etc.
Remark: With or without reflective tapes
Color: Orange, Royal blue, Navy blue, Red, etc.
Standard: NFPA 2112, EN11612 : 2015

Flame Resistant Clothing

100% FR Cotton Jacket and Pants

Model: FRC-C-220
Material: Flame retardant 100% Cotton
Fabric weight: 220g/m²
Description: Moisture-absorbing, breathable, comfortable and durable
Application: Oil and Gas, Petroleum, Chemical, Paint, etc.
Remark: With or without reflective tapes
Color: Orange, Royal blue, Navy blue, Red, etc.
Standard: NFPA 2112, EN11612 : 2015



FR Cotton/Nylon - Jacket and Pants

Model: FRCN-J/P-260
Material: 260 g/m² 88% Cotton and 12% Nylon
ATPV: 8 cal/cm²
Description: Moisture-absorbing, breathable, comfortable and durable
Application: Oil and Gas, Petroleum, Chemical, Paint, etc.
Remark: With or without reflective tapes
Color: Grey, Navy blue, Orange, Royal blue, Red, Yellow, etc.
Standard: NFPA 2112, EN11612 : 2015



100% FR Cotton Anti-Static coverall

Model: FRC-C-330
Material: Flame retardant 98% Cotton, 2% Anti-static fiber
Fabric weight: 330g/m²
Description: Moisture-absorbing, breathable, comfortable and durable
Application: Oil and Gas, Petroleum, Chemical, Paint, etc.
Remark: With or without reflective tapes
Color: Orange, Royal blue, Navy blue, Red, etc.
Standard: NFPA 2112, EN11612 : 2015

Aluminized Clothing



Mirror Suit 3H

Model: MirPro-Kit-500
Material: 500 g/m² aluminized glass fiber base material
Description: Can withstand the degree of 1200 °C
 Can stand up to more than 95 seconds radiant heat as per EN ISO 6942 test
 The aluminized material is not easily peeled from the base material
Application: The industrial environment where workers contact heat indirectly
Standard: EN11612 : 2015, EN407 : 2020



Mirror Suit 4HV

Model: MirPro-Kit-580
Material: 580g/m² aluminized Viscose base material
Description: Can withstand the degree of 1200°C
 Can resist thermal contact and hot molten metal splash
 The aluminized material is not easily peeled from the base material
Application: Steel and aluminum factory or other heat dangerous industrial environment
Standard: EN11612 : 2015, EN407 : 2020

Aluminized Clothing

Mirror Suit 4HK

Model: MirPro-Kit-515
Material: 515 g/m² aluminized with Kevlar base material
Description: Can withstand the degree of 1200 °C
 Can resist thermal contact and hot molten metal splash
 More wear-resistant and durable usage
 The aluminized material is not easily peeled from the base material
Application: Steel and aluminum factory or other heat dangerous industrial environment
Standard: EN11612 : 2015, EN407 : 2020



Mirror Suit 5HL

Model: MirPro-Kit-420
Material: Aramid fabric with aluminum coating, 420g/m²
Description: Suitable for high-temperature steam environments of 80-200°C, with excellent flame retardant, heat insulation, and high-temperature steam resistance. In high-temperature water vapor environments, the aluminum-plated material is firmly bonded to the substrate, without fading, peeling, and not easy to deform. The hood uses an aluminum-plated face screen.
Application: Pipeline leak plugging and repair under high temperature and high pressure in power plants, nuclear power plants, and steam-prone working environments
Standard: EN ISO 11612-2015

Mirror Suit 5HM

Model: MirPro-Kit-473
Material: Aramid fabric with aluminum coating, 473g/m²
Description: Suitable for high-temperature steam environments of 200-500°C, with excellent flame retardant, heat insulation, and high-temperature steam resistance. In high-temperature water vapor environments, the aluminum-plated material is firmly bonded to the substrate, without fading, peeling, and not easy to deform. The hood uses an aluminum-plated face screen.
Application: Pipeline leak plugging and repair under high temperature and high pressure in power plants, nuclear power plants, and steam-prone working environments
Standard: EN ISO 11612-2015



Aluminized Clothing



Mirror Suit 5HH

Model: MirPro- Kit-618
Material: Aramid fabric with aluminum coating, 618g/m²
Description: Suitable for high-temperature steam environments of 500-800°C, with excellent flame retardant, heat insulation, and high-temperature steam resistance. In high-temperature water vapor environments, the aluminum-plated material is firmly bonded to the substrate, without fading, peeling, and not easy to deform. The hood uses an aluminum-plated face screen.
Application: Pipeline leak plugging and repair under high temperature and high pressure in power plants, nuclear power plants, and steam-prone working environments
Standard: EN ISO 11612-2015

Mirror Suit 6H

Model: MirPro-Kit-770
Material: Outer shell: 770 g/m² FR woven fabric substrate with aluminum membrane
Thermal lining: Meta/para-aramid felt quilted to 50% meta-aramid / 50% FR viscose woven fabric
Description: Withstand high-heat up to 1200 °C
 The shield is made of polycarbonate with gold coating (24 carat), which reflects electromagnetic radiation of more than 1000°C
 The aluminized material is not easily peeled from the base material
Application: Proximity fire rescue
 Emergency rescue
 Not suitable for entering or passing through fire ground
Accessory: Self-contained breathing apparatus (SCBA) CG60415210
Standard: EN11612 : 2015, EN407 : 2020



Accessories



MirPro-Apron-580



MirPro-GLV-580



MirPro-Sleeve-580



MirPro-Leg-580

Metaltech Clothing



Metaltech garment is an innovative product to prevent injuries from the molten metal splash. It is inherently flame-retardant and the protection can not be washed out or worn away. Metaltech, with its special blend of fibers, can protect skins from metal or iron splash. Metaltech garments apply in welding, smelting, casting and molten metal splash or radiant heat industrial condition.

Metaltech Clothing

Model: MeT-J/P-350
Color: Navy Blue
Weight: 350gsm
Function: Used to protect from heat and flame, molten aluminum splash, and molten iron splash
Fabric: Woven Fabric, lenzing FR blended (Viscose FR Blended)
Standard: EN 11612 : 2015, D3 E3



Chemical Protection Clothing



Disposable Hooded Protective Coverall

Model: CG500B/CG501B
Material: Non-woven fabric with microporous laminate
 65g/m²±2 / 55g/m²±2
Description:
 Durability, Anti-static properties
Application:
 Spraying, cleaning operations, food processing, painting
Color: White
Certificate: CE, GB/T 29511-2013
Standards:
 Optional:



Chemical Protection Clothing

Disposable Hooded Protective Coverall

Model: Dupont™ Tyvek® 500 Xpert
Material: Tyvek® 41g/m²
Package: 25pc/box
Standards: EN ISO 13982-1:2004+A1:2010 (Type 5), EN 13034: 2005+A1: 2009 (Type 6), EN 14126:2003 (Type 5-B, 6-B), EN 1149-5: 2008
Certificate: CE
Color: White
Package:



Disposable Hooded Protective Coverall

Model: Dupont™ Tyvek® 600 Plus
Material: Tyvek® 41g/m²
Package: 100pc/box
Standards: EN 14605:2005+A1:2009 (Type 4); EN ISO 13982-1:2004+A1:2010 (Type 5), EN 13034:2005 +A1:2009 (Type 6), EN 14126:2003, EN 1149-5:2008
Certificate: CE
Color: White, blue tape seamed
Package:

Disposable Hooded Protective Coverall

Model: CG400B
Material: Non-woven fabric with microporous laminate, 65g/m²±2
Description:
 Durability, Anti-static properties
Application:
 It provides barrier and protection from hazardous substances or radioactive particles in the nuclear industry, pharmaceutical manufacturing or in research and biosecurity laboratories.
Color: White
Certificate: CE
Standards:
 Optional:



Liquid-tight Chemical Protective Clothing

Model: CG300B
Material: Microporous film coated non-woven fabric, 89g/m²±2
Description: Made with microporous film coated non-woven material.
Application: Protects from harmful dry particles; Protects from chemical substance, acid and alkali chemicals treatment; Protects from hazardous substances or radioactive particles in the nuclear industry
Color: Yellow
Standards: EN 14605 : 2005+A1 : 2009, EN ISO 13982-1 : 2004+A1 : 2010, EN 13034 : 2005+A1 : 2009, EN 14126 : 2003, EN 1073-2, EN 1149-5 : 2008



Chemical Protection Clothing

Liquid-Tight Chemical Protective Clothing

Model: ChemPro-6000

Description: 1. Made of proprietary materials, including protective film structure

2. Resistant to a variety of organic substances, such as stupid, diformaldehyde and other substances

3. Passed the European standard EN14126:2003 biological protection test with the highest performance level

4. Pass the European standard protective clothing type 3/4/5/6 test requirements, the inner layer has been treated with anti-static

5. High level of protection combined with light weight and softness

Application: Protection of a variety of organic chemicals and biological assay, it can be used in chemical industry, industrial cleaning and maintenance, dangerous goods disposal and disaster control and other fields.

Standard: EN 14605 : 2005+A1 : 2009, EN ISO 13982-1 : 2004+A1 : 2010, EN 13034 : 2005+A1 : 2009, EN 14126 : 2003, EN 1073-2, EN 1149-5 : 2008



Gas-Tight Chemical Protective Clothing

Model: ChemPro-10000

Description:

1. Fully enclosed air tight protective clothing with protruding back to accommodate self-contained air breathing apparatus;

2. Detachable double layer gloves;

3. Velcro double-layer placket zipper, the zipper is covered with the zipper placket to avoid leakage at the zipper;

4. Double exhaust valve, double-layer adhesive strip, socks, and placket with trousers

5. The widened panel is adopted, and the widened panel is of 3-layer structure

6. Positive pressure air tightness test completed (ASTMF 1052)

Application:

It is used to protect from dangerous chemical goods handling, chemical accident emergency rescue etc.

Color: Hi-vis Green

Standards: Type 1-B, Type 2-B, Type 3-B, Type 4-B, Type 5-B, EN 14126, EN 1073-2, EN 1149-5

Chemical Protection Clothing

Firefighter Chemical Protective Suit

Model: RHF-II CGA

Description: The second-level chemical protective suit is a one-piece suit consisting of a chemical protective hood, a one-piece suit, anti-smash and anti-puncture chemical rubber boots, double protective wrists, detachable chemical protective gloves, a single sealed zipper and a water-tight zipper. It is used in conjunction with an external positive pressure fire-fighting air respirator.

Flame retardant performance: flame/flameless burning time 0s, damaged length < 8.0cm

Mechanical properties: tensile strength $\geq 16\text{kN/m}$, tear strength $\geq 165\text{N}$, seam strength $\geq 421\text{N}$, glove puncture resistance $\geq 26\text{N}$, boot sole puncture resistance $\geq 2066\text{N}$

Chemical penetration resistance: 96% sulfuric acid/30% sodium hydroxide $\geq 240\text{min}$

Application: Firefighters wear it when entering the scene of solid or liquid chemicals for rescue;

Standard: XF 770-2008, GB 24539-2021



Cryogenic Protective Clothing



Cryogenic Protective Clothing

Model: ColdPro-Hood-001

Model: ColdPro-C-001

Model: ColdPro-Glv-001

Description: The overall structure is made of multi-layer composite materials, with the outer layer: low-temperature resistant composite waterproof breathable membrane, the middle layer is filled with ultra-fine low-temperature resistant heat-insulating cotton, and the skin-friendly layer is warm fleece material, which can withstand liquid nitrogen temperatures as low as -196°C . It can be effectively used at minus 50°C to minus 5°C .

Application: It has good low-temperature protection performance, reduces the occurrence of liquid nitrogen splash accidents, has a soft feel, good air permeability, and adopts a one-piece design to effectively prevent liquid nitrogen and liquefied gas from immersing in frostbite. It is used in petroleum and petrochemical emergencies, natural gas liquefaction stations, biomedicine, laboratory research, low-temperature cold chain logistics, industrial production cold environments, frozen food processing, low-temperature grinding and other extremely cold environments.

Stormwalker Clothing



Outdoor Jacket With Hood And Detachable Interior

Model: STW-J-P100

Brand: Stormwalker®

Product: Agate blue detachable jacket

Overall structure: The shell of the lightweight waterproof and breathable jacket and the detachable inner liner of Stormwalker® high-efficiency thermal insulation flake are used.

Material: Outer layer-polyester TPU coated fabric;

Inner liner-made of Stormwalker® high-efficiency thermal insulation flake.

Description: 1. The outer layer is made of polyester TPU coated fabric, which has good wear resistance, waterproof and breathable performance.

2. The inner liner Stormwalker® high-efficiency thermal insulation flake is prepared from special aerospace fibers, and the thermal insulation effect is better than the high-end thermal insulation flake on the market.

3. The whole body of the garment is treated with glue, and the placket is a waterproof zipper with multiple protections to provide better waterproof performance.

Application: Daily life and also suitable for outdoor sports such as heavy-duty hiking, camping, and crossing Agate blue color matching detachable jacket

Color: Agate blue

Standard: EN13688 : 2013, GB/T 32614-2016



Cooling Vest

Bionic Cooling Vest

Model: TemPro-CV-02, Ecool-OH-A

Material: Outer shell: Functional fiber fabric

Inner layer: Waterproof breathable material

Description: Cooling method that mimics the evaporation of body sweat

Unique high-tech cool 3-layer structure, better water locking performance

Physical water absorption locking mechanism and reusable Upper body design to avoid intestinal irritation due to low temperature

Durable and machine washable. No spin dehydration, dryer drying

Easy to use, only need a bottle of water

Keep cooling for 3-8 hours

Application: Hot weather or heated environment

Color: Navy blue

Standard: EN13688 : 2013



Biobased Cooling Vest

Model: TemPro-CV-01

Material: Polyester/cotton fabric

Description: Cool storage cooling method

The special structure and design adopted in the cold storage bag ensure the bag stiff and not deformed, and make the cold agent not flow or fall.

With up to 4 recyclable hard gel packs.

The shoulder and waist are designed with Velcro, which can be adjusted.

Use after refrigerating and keep cooling no less than 3 hours

Application: Hot weather or heated environment

Color: Blue

Standard: EN13688 : 2013



High-Visibility Clothing



High-Visibility Shirt and Pants

Model: HV-S/P-190
Material: 100% Cotton twill
Fabric weight: 190 g/m²
Description: UPF50+, 3M reflective tapes
Color: Orange / Navy blue, Yellow / Navy blue
Standard: EN20471 : 2013

High-Visibility Vest

Model: HV-V-120
Material: 100% polyester low elastic fabric
Description: Highly visible, comfortable and moisture-absorbing
Application: Road workers, police, emergency rescue, etc.
Color: Orange, Yellow, Blue, etc.
Standard: EN20471 : 2013



High-Visibility Rainwear

Model: HV-Rain-1
Material: 100% Polyester Oxford waterproof PU
Description: 5cm reflective tape, All seam taped to prevent heavy rain, Detachable hood
Standard: EN20471 : 2013, EN343 : 2019

Hand Protection

Cut-Resistant and Arc Flash Work Gloves

Model: Arc-CRPro-GLV-12
ATPV: 12.7CAL/CM²
Material: Aramid Nitrile Chlorine Fiber Blending
Description: Inherently flame resistant, Excellent combined protection from flame, heat and cut, Liner has comparable heat qualities to aramid fibers, Neoprene bi-polymer dip provides superior grip plus great abrasion qualities
Application: Power grid industry, industrial enterprise substations, engaged in power generation, transmission, transformation, distribution and power consumption processes, Operation, commissioning, overhaul and maintenance positions
Standard: ASTM F2675 EN388



50cal Leather Arc Flash Gloves

Model: ArcPro-GLV-LEA50
ATPV: 50.5CAL/CM²
Material: Cowhide and aramid blended
Description: Strong thermal stability, soft and comfortable, High arc resistance 3D three-dimensional design, high flexibility
Application: Power grid industry, industrial enterprise substation
Standard: ASTM F2675

Anti-static Conductive Gloves

Model: StcPro-GLV-002
Material: Carbon fiber material, polyurethane coating on the palm
Description: With anti-slip, dust-proof, wear-resistant, breathable and anti-static functions. Using 13-needle technology, no seams fully automatic computer knitting Elastic cuffs, elastic and comfortable, fit the shape of the hand
Application: Automotive, Electronics, Machinery and Equipment Electrical Operations.
Standard: EN16350:2014



Hand Protection



Anti-static Conductive Gloves

Model: StcPro-GLV-001

Material: Polyester and carbon fiber material, polyurethane coating on the fingertips

Description: With anti-slip, dust-proof, wear-resistant, breathable anti-static functions. The fingertip coating also prevents perspiration from penetrating and transferring to product-contacting parts. Using 13-needle technology, no seams, fully automatic computer knitting. Elastic cuffs, elastic and comfortable, fit the shape of the hand.

Application: Automotive, Electronics, Machinery and Equipment Electrical Operations.

Standard: EN16350:2014



High Temperature Resistant Glove

Model: HRPro-GLV-001

Material: Good heat, cut and abrasion resistance, heat resistance: 500°C, flexible, conformable and durable

Application: Mainly suitable for casting, smelting, forging, glass processing, blow molding, etc.

Standard: EN407:2020



Leather Welding Gloves

Model: WeldPro-Glov001

Material: Cowhide, sewn with fireproof threads

Features: Wear-resistant and durable, providing effective protection for welding operators.

Application: Suitable for welding processing industries such as electric welding and gas welding.

Hand Protection

High Temperature Resistant Gloves

Model: CG-NGW-01

Material: The main material has an outer layer of aramid and an inner layer of polyester-cotton.

Description: Thermal contact performance level 3 350°C, avoid or reduce hazards to hands and wrists.

Application: Wear-resistant, anti-skid and anti-cut.

Standard: EN407:2020



HPPE Cut-resistant Gloves

Material: HPPE, Palm polyurethane (PU) coating.

Description: Has good anti-slip and wear resistance. Using 13-needle knitting, it is seamless and has good breathability and flexibility. Wear resistance level 4, cut resistance level 4, tear resistance level 4, puncture resistance level 4.

Application: Glass industry, mechanical assembly and maintenance, logistics and warehousing, gardening work, emergency rescue, engraving work, sharp object processing.

Standard: EN388:2016

Aramid Cut-resistant Gloves

Model: CRPro-GLV-001

Material: Aramid

Description: Using 10-needle technology, no seams, fully automatic computer knitting, wear resistance level 2, cut resistance level 4, tear resistance level 4.

Application: Automotive industry, steel casting, machining, glass manufacturing, metal smelting.

Standard: EN388:2016

