Personal Protective Clothing

2024-25 Version

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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℃. 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 Electrocution

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.

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.

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 61482-2, DL/T 320-2019, GB 8965.1-2020

Model	Description
ArcPro-J-65	65 cal/cm² arc flash protective jacket
ArcPro-Bib-65	65 cal/cm² arc flash protective bib-overall
ArcPro-Hood-65	65 cal/cm² arc flash protective hood
ArcPro-GLV-65	65cal/cm² arc flash protective gloves

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 61482-2, DL/T 320-2019, GB 8965.1-2020

Model	Description
ArcPro-Robe-55	55 cal/cm² arc flash protective robe
ArcPro-J-55	55 cal/cm² arc flash protective jacket
ArcPro-P-55	55 cal/cm² arc flash protective pants
ArcPro-Bib-55	55 cal/cm² arc flash protective bib-overall
ArcPro-Hood-55	55 cal/cm² arc flash protective hood
ArcPro-GLV-55	55 cal/cm² arc flash protective gloves
ArcPro-Leg-55	55 cal/cm² arc flash protective leggings

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 61482-2, DL/T 320-2019, GB 8965.1-2020

Model	Description
ArcPro-Robe-45	45 cal/cm² arc flash protective robe
ArcPro-J-45	45 cal/cm² arc flash protective jacket
ArcPro-P-45	45 cal/cm² arc flash protective pants
ArcPro-Bib-45	45 cal/cm² arc flash protective bib-overall
ArcPro-Hood-45	45 cal/cm² arc flash protective hood
ArcPro-LHood-45	45 cal/cm² arc flash protective Lift-Front hood
ArcPro-GLV-45	45 cal/cm² arc flash protective gloves
ArcPro-Leg-45	45 cal/cm² 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

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 61482-2, DL/T 320-2019, GB 8965.1-2020

Model	Description
ArcPro-Robe-33	33 cal/cm² arc flash protective robe
ArcPro-J-33	33 cal/cm² arc flash protective jacket
ArcPro-P-33	33 cal/cm² arc flash protective pants
ArcPro-Bib-33	33 cal/cm² arc flash protective bib-overall
ArcPro-Hood-33	33 cal/cm² arc flash protective hood
ArcPro-GLV-33	33 cal/cm² arc flash protective gloves
ArcPro-Leg-33	33 cal/cm² 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 61482-2, DL/T 320-2019, GB 8965.1-2020

Model	Description
ArcPro-Robe-25	25 cal/cm² arc flash protective robe
ArcPro-J-25	25 cal/cm² arc flash protective jacket
ArcPro-P-25	25 cal/cm² arc flash protective pants
ArcPro-Bib-25	25 cal/cm² arc flash protective bib-overall
ArcPro-C-25	25 cal/cm² arc flash protective coverall
ArcPro-Hood-25	25 cal/cm² arc flash protective hood
ArcPro-LHood-25	25 cal/cm² arc flash protective Lift-Front hood
ArcPro-GLV-25	25 cal/cm² arc flash protective gloves
ArcPro-Leg-25	25 cal/cm² 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 61482-2, DL/T 320-2019, GB 8965.1-2020

Model	Description
ArcPro-Robe-12	12 cal/cm² arc flash protective robe
ArcPro-J-12	12 cal/cm² arc flash protective jacket
ArcPro-P-12	12 cal/cm² arc flash protective pants
ArcPro-S-12	12 cal/cm² arc flash protective shirt
ArcPro-C-12	12 cal/cm² arc flash protective coverall
ArcPro-FS-12	12 cal/cm² arc flash protective face shield
ArcPro-LHood-12	12 cal/cm² arc flash protective Lift-Front hood
ArcPro-GLV-12	12 cal/cm² arc flash protective gloves
ArcPro-Leg-12	12 cal/cm² arc flash protective leggings

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/cm² 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/cm² arc flash protective face shield, grey

Arc Flash Protective Clothing

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 61482-2, DL/T 320-2019, GB 8965.1-2020

Model	Description
Arcpro-J-8	8 cal/cm² arc flash protective jacket
Arcpro-P-8	8 cal/cm² arc flash protective pants
Arcpro-S-8	8 cal/cm² arc flash protective shirt
Arcpro-C-8	8 cal/cm² arc flash protective coverall
Arcpro-FS-10	10 cal/cm² arc flash protective face shield
Arcpro-GLV-8	8 cal/cm² arc flash protective gloves

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 61482-2, DL/T 320-2019, GB 8965.1-2020

Model	Description
Arcpro-J-6	6 cal/cm² arc flash protective jacket
Arcpro-P-6	6 cal/cm² arc flash protective pants
Arcpro-S-6	6 cal/cm² arc flash protective shirt
Arcpro-C-6	6 cal/cm² arc flash protective coverall
Arcpro-GLV-6	6 cal/cm² arc flash protective gloves

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-Slv1-2
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

/ ASTM Class 0 ASTM F2413-11 M I/75 C/75 EH

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-weaved 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: XF 10-2014

Firefighter Turnout Gear

Model: ZFMH-CG G (DRD)
Description: Composed of four layers including outer layer, waterproof and breathable layer, heat insulation layer and comfort layer, equipped with Drag Rescue Device (DRD).
Fabric: Outer layer: Aramid 1313 and Aramid 1414 blend
Waterproof and breathable layer: Aramid felt with FR PTFE film
Heat insulation layer: Aramid felt
Comfort layer: Aramid and FR Viscose blend
Feature: The outer fabric is carbonized and thickened at high temperature, increasing the protective barrier between the heat source and the skin without melting and dripping. The four-layer structure has good overall thermal protection performance, excellent wear resistance and tear resistance, and meanwhile it is waterproof, oil-repellent and chemically resistant. With the middle waterproof and breathable layer and heat insulation layer, water droplets cannot penetrate. It is comfortable to wear, durable and ergonomically designed. Suitable for the body protection by firefighters in firefighting work.
Standard: XF 10-2014

Type 20 Firefighting Emergecy Rescue Suit

Model: RJF-F-1C
Materia: Made of single-layer fabric, double tissue interwoven with Nomex and flame-retardant viscose fibers.
Descriptionc: 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)℃, 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℃ 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
Breaking Force(warp)	⩾1050N	ISO 1421-1
Breaking Force(weft)	⩾800N	ISO 1421-1
Tearing Force(warp)	⩾20N	ISO 4674-2

Fabric Property	Value	Testing Method
Tearing Force(weft)	⩾30N	ISO 4674-2
Flame retardation	Afterglow⩽2s	ISO 15025
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℃, 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

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.

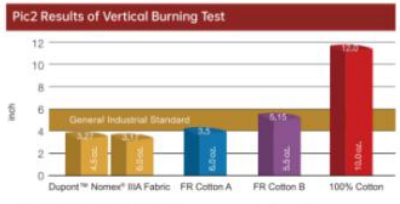
Pic1 It shows that Dupont® Nomex® IIIA garment will carbonize and get thicker when exposed to high temperature and flame.

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).

Pic2 Results of Vertical Burning Test



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

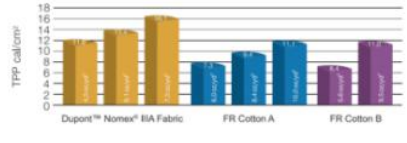
03 Outstanding performances in Thermal Protective Performances (TPP) Test

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.



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 economyand 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

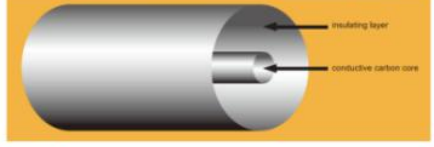
06 The fabric is light and comfortable

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%. The excellent anti-static performance has been proved in 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
	150	3.10	0.02
100% FR Cotton	0	3.25	>10
	25	2.00	>10
	50	1.60	>10
100% Cotton	0	4.31	2.2
	25	2.50	>10
	50	2.33	>10
65% Cotton	0	4.90	4.3
	25	2.20	>10
	50	2.25	>10

According to US Test Standard 191A (Method 5931), to put the fiber between two paralleled 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.

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
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

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

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

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 : 201

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 ℃
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℃
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 ℃
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 5H

Model: MirPro-Kit-710
710 g/m² FR woven fabric substrate with aluminum membrane
Description: Withstand high-heat up to 1200 ℃
Superior protective performance on high pressure and moisture vapor, superheated vapor and high temperature liquid
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

Aluminized Clothing

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 ℃
The shield is made of polycarbonate with gold coating (24 carat), which reflects electromagnetic radiation of more than 1000℃
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

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:

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:

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:

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 handing, 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

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

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 productcontacting 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, comformable 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 Knittin, 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

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