



ARC

CATALOGUE

2021



Manufactured in an ISO 9001 accredited facility.
Garments meet the requirements of the South African Bureau of Standards
in terms of: **SANS:434:2001: General Protective Clothing**

WHO IS BOVA?

Bova is a leading brand within the safety wear industry recognised for delivery of quality safety footwear, workwear and fall arrest equipment throughout Africa and beyond. Bova prides itself on being ENGINEERED WITH PURPOSE, providing the correct protection for the required application. Manufactured with the same passion and quality that has established them as safety footwear leaders in Africa, BOVA proudly introduces their inaugural range of ARC safety wear, an innovative range of PPE engineered for specialised thermal protection against the hazards of an arc flash.





MANUFACTURING STANDARDS

PG 1

UNDERSTANDING ARC FLASH AND PPE

PG 3-4

INHERENT PROTECTION & WHY BOVA ARC

PG 5-6

THE ENGINEERING WITHIN

PG 7-8

ARC HAZARD RISK CATEGORY 2

PG 9-14

REFLECTIVE WORKWEAR JACKET AND TROUSER 9 - 10

CHAMBRAY SHIRT AND CHINOS 11 - 12

GLOVES AND BALACLAVA 13

VISOR AND HARD HAT 14

ARC HAZARD RISK CATEGORY 4

PG 15-18

JACKET AND BIB BRACE 16 - 17

HOOD AND GLOVES 18

EXTENDED RANGE OFFERING

PG 19-20

FOOTWEAR & SOCKS 19

HARNESSES / COMPLIANCY AND STANDARDS 20

CARING FOR BOVA ARC PRODUCTS

PG 21

HOW TO CARE FOR YOUR PRODUCT 21

SIZE CHART

PG 22

WHAT IS AN **ARC FLASH**?

AN ARC FLASH IS THE SUDDEN RELEASE OF ELECTRICAL ENERGY THROUGH THE AIR WHEN A HIGH-VOLTAGE GAP EXISTS AND THERE IS A BREAKDOWN BETWEEN CONDUCTORS.

An arc flash emits intense light and thermal radiation (heat) that can cause serious injury. Temperatures have been recorded as high as 20 000 °C.

High-voltage arcs can also produce considerable pressure waves by rapidly heating the air and creating a blast. This pressure burst can hit a worker with great force and send molten metal droplets from melted copper and aluminium electrical components across great distances at extremely high velocities.



WHAT CAUSES AN **ARC FLASH**?

AN ARC FLASH CAN BE SPONTANEOUS OR RESULT FROM INADVERTENTLY BRIDGING ELECTRICAL CONTACTS WITH A CONDUCTING OBJECT.

Other causes may include dropped tools or the build-up of conductive dust or corrosion. Arc flash can be caused by various other factors:

- **Accidental contact across conductors during maintenance or trouble-shooting**
- **Component failures**
- **Use of underrated or improperly installed equipment**
- **Contamination or tracking over insulated surfaces**
- **Corroded cables, equipment or parts**
- **Lack of maintenance**
- **Presence of animals or insects**

WHO SHOULD **WEAR ARC FLASH PPE**?

EXAMPLES OF KEY SECTORS WHERE ARC RISK MUST BE CONSIDERED INCLUDE:

POWER GENERATION – including wind, solar, nuclear, coal and gas.

TRANSMISSION INDUSTRIES for electricity.

DISTRIBUTION of electricity.

ELECTRICAL MAINTENANCE – this can include anything from small electrical contractors working on private dwellings, to maintenance engineers at large scale manufacturing facilities.



SELECTING **ARC FLASH PPE**

THE DANGERS INHERENT IN ENVIRONMENTS WHERE THERE IS THE THREAT OF AN ARC FLASH ARE POTENTIALLY FATAL. PERSONAL PROTECTIVE EQUIPMENT IS THE LAST LINE OF DEFENCE AGAINST AN ARC FLASH AND SERIOUS CONSIDERATION NEEDS TO BE GIVEN TO SELECTING THE CORRECT PPE.

PROTECTION

The Arc Thermal Performance Value (ATPV) rating of the garments needs to exceed the incident energy calculated by your arc flash study. All garments should have relevant test reports from accredited test facilities. A key consideration in performance though is whether you are using a garment with fabric that is **INHERENTLY Flame Resistant (FR)** or is **CHEMICALLY TREATED** for flame resistance.

INHERENT FR fabrics utilise fibres with innate FR properties which ensure the flame resistance is not altered through cleaning or other processes. So long as the garment is visibly intact the wearer is protected.

TREATED fabrics have a chemical compound incorporated during manufacture or applied as a finish to provide FR properties. These may wash or wear away when using household washing powders and detergents. The real danger here is that the garment may appear intact, yet the wearer is no longer protected from harmful flames.

COMFORT

Wearers need to be comfortable to be productive. An uncomfortable wearer may discard their PPE altogether leaving both themselves and your business at risk. Ideally fabrics should be lightweight, breathable and provide good moisture management without sacrificing protective ability.

DURABILITY

The garments and materials utilised should provide protection for the life of the garment as well as resistance to abrasion and shrinkage. Once again, inherent FR fabrics generally offer all of these qualities and more while material specification sheets can also confirm compliance to ISO standards for tear strength, abrasion resistance and similar attributes.



POWER UP WITH BOVA ARC?

When it comes to safety – quality and reliability cannot be compromised. As part of BOVA's commitment to “**Engineering products with purpose**”, we explore the varied dangers inherent in any industry and then engineer best-of-breed product solutions purposed with best protecting employees within those environments. Our BOVA ARC specialised arc flash protection PPE range is no exception.

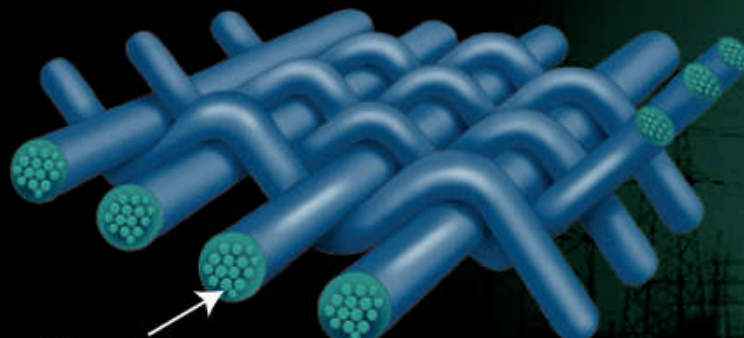
BRINGING INTERNATIONAL PROTECTIVE TEXTILE INNOVATION TO SOUTH AFRICA

The BOVA ARC range incorporates Beier's **I-ARC** thermal protection fabric, an innovative solution developed by The Beier Group as a local technical textile specialist in association with LENZING™, a global leader in inherently Flame Resistant (FR) fibres.

Lightweight and breathable, the **I-ARC** fabric provides the Bova Arc range with a significant advantage in comfort and durability, along with the inherent FR protection that sets it apart from competitors.

INHERENTLY DIFFERENT, INHERENTLY SUPERIOR

Unlike chemically treated FR fabrics, the FR protection in **I-ARC** is incorporated into the structure of the fabric during manufacture, as if it is part of its DNA. This allows the Bova Arc range to maintain its arc rated FR protection throughout the product lifespan, even with repeated washing and accidental exposure to household detergents and bleach. The fabric also offers strong abrasion resistance and low shrinkage, along with advanced moisture management and breathability that creates a unique **evaporative cooling effect** ideal for usage across the African continent.



FR pigments within the fabric structure

PROCESS

LENZING™ sources their wood from sustainably managed forestry projects and at the point where the wood is reduced to pulp, a pigment is incorporated into the solution at a cellular level before extruding the fibres. This provides the inherently Flame Resistant properties.

During the process, colour pigments can also be incorporated to give outstanding colour fastness.



Wood

Pulp

Fibre

Yarn

Fabric

Garment

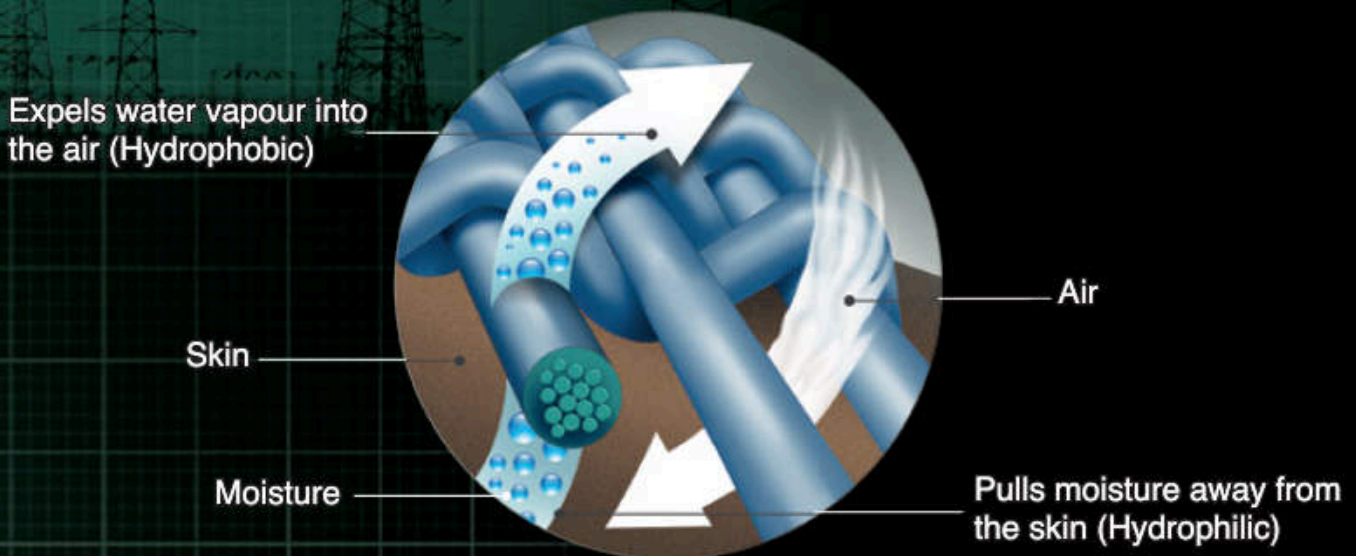
i-arc
BY BEIER

WHY SPECIFY BOVA ARC?

As a leading safety wear brand, Bova's guiding principle of ENGINEERED WITH PURPOSE has been brought to the fore in this highly technical category. Through the utilisation of innovative materials and a commitment to not only protecting wearers, but also providing them with a solution that delivers on comfort and durability. BOVA ARC is bringing a unique range of arc flash PPE to the market.

- **Constructed from inherent FR materials that maintain their in-built qualities and cannot wash or wear away.**
- **Low shrinkage - even over time and when subjected to severe heat.**
- **Superior comfort - the I-ARC material is lighter and more breathable to provide an improved tactile experience.**
- **Performance vs weight advantage - the same and often better thermal protection at a lighter weight fabric (CAT 2 garments on 215 gsm fabric vs competitors up to 100 gsm heavier).**
- **Does not contain harmful chemicals.**
- **Locally manufactured for local conditions.**
- **Environmentally-friendly - Fibres constructed from botanical materials sourced from sustainably managed forestry.**

EVAPORATIVE COOLING EFFECT



INHERENT FR



EVAPORATIVE
COOLING



LIGHTWEIGHT



DURABLE

THE ENGINEERING **WITHIN**

YKK ZIPPERS

Bova ARC PPE makes use of brass YKK Zippers, a global leader in fastening products. This quality selection improves the durability of the garments, enhancing their longevity. YKK Zippers conform to SANS 1822 Standards.



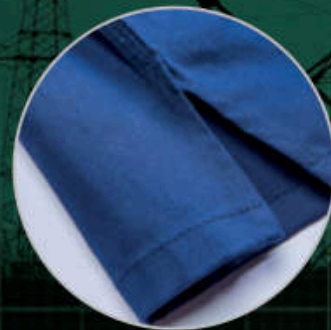
REFLECTIVE

Our reflective garments are engineered utilising Aramid backed inherent retardant reflective tape according to the international standards for high visibility clothing.



SIDE SLITS

This feature has been designed on certain garments to enhance the flexibility and movement of the wearer while working.



CUFFS

Garment dependent, our range features the following cuff constructions:

- Elasticated
- Button Closure
- Velcro Closure

THREAD

All Bova ARC PPE is manufactured using Meta Aramid inherent FR thread



i-arc
BY **BEIER**

The Bova ARC range has the advantage of being manufactured with the I-ARC Inherent FR fabric. The significance of I-ARC is that the protective qualities in inherently flame resistant fabrics cannot wash or wear away,



CATEGORY 2

Utilising a single layer of I-ARC material to provide a lightweight, comfortable and inherently flame resistant PPE solution.



CODE: WRJK10021

WORKWEAR JACKET



IN STOCK



Navy

MADE TO ORDER



Orange



Fern Green

FABRIC: • I-ARC (LENZING FR, ARAMID, ANTI-STATIC BLEND).

ATPV: • 13 CAL/CM².

WEIGHT: • 215gsm.

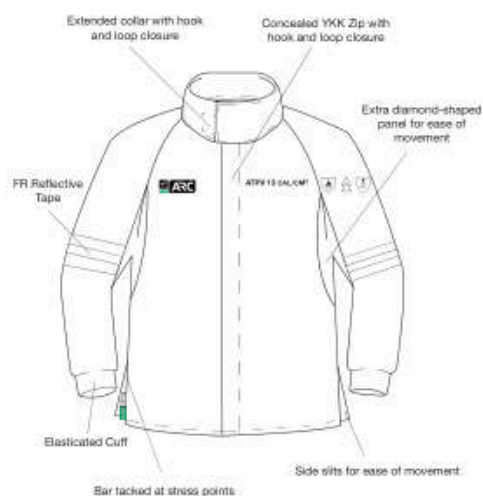
SIZES: • 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
48 | 50 | 52 | 54 | 56 | 58 | 60

REFLECTIVE: • 50mm Aramid backed inherent Lime Silver Lime FR tape.

CLOSURES: • Concealed YKK brass zip – Type 5 with hook and loop closure | Elasticated cuffs | Adjustable neck with hook and loop closure | Right hand side zip guard for added protection.

STITCHING: • Meta Aramid inherent FR thread used for all stitching | Top stitched stress seams for enhanced durability | Bar tacked at stress points for extra strength.

COMFORT: • High front for maximum upper body protection | Padded diamond shaped underarm extension for easy movement | Side slits for easy movement.
• Available in non-reflective WTJK10021.



YKK ZIP



EVAPORATIVE COOLING



DURABILITY



LIGHTWEIGHT



INHERENT FR



FR THREAD

i-arc



CODE: WRTR10021

WORKWEAR TROUSERS



IN STOCK

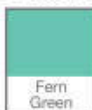


Navy

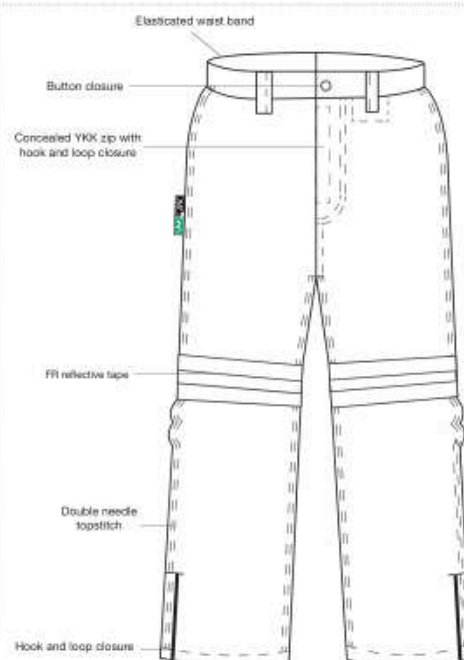
MADE TO ORDER



Orange



Fern Green

FABRIC: • I-ARC (LENZING FR, ARAMID, ANTI-STATIC BLEND).**ATPV:** • 13 CAL/CM².**WEIGHT:** • 215gsm**SIZES:** • 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
48 | 50 | 52 | 54 | 56**REFLECTIVE:** • 50mm Aramid backed inherent Lime Silver Lime FR tape.**CLOSURES:** • Concealed YKK brass zip – Type 5 | Front button closure | Hook and loop with boxed and crossed ends at the bottom of the trouser.**STITCHING:** • Meta Aramid inherent FR thread used for all stitching | Top stitched stress seams for enhanced durability | Bar tacked at stress points for extra strength.**COMFORT:** • Elasticated waist band.
• Available in non-reflective: WTTR10021.

YKK ZIP

EVAPORATIVE
COOLING

DURABILITY



LIGHTWEIGHT



INHERENT FR



FR THREAD

i-arc



CODE: WTS40021

CHAMBRAY SHIRT



IN STOCK



Sky Blue

MADE TO ORDER



Grey

FABRIC: • I-ARC (LENZING FR, ARAMID, ANTI-STATIC BLEND).

ATPV: • 13 CAL/CM².

WEIGHT: • 215gsm.

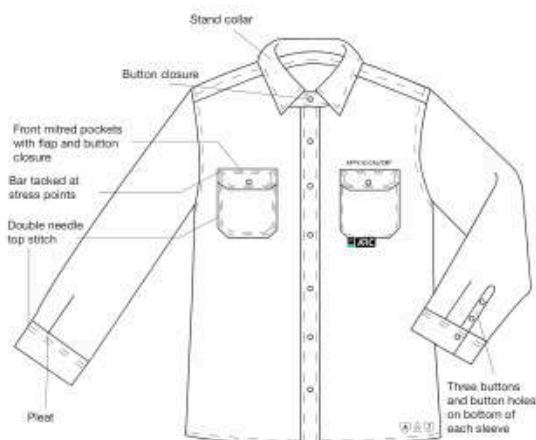
SIZES: • 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
48 | 50 | 52 | 54 | 56 | 58 | 60

CLOSURES: • Front Button Closure | Buttoned cuffs.

STITCHING: • Meta Aramid inherent FR thread used for all stitching |
Top stitched stress seams for enhanced durability |
Bar tacked at stress points for extra strength.

POCKETS: • Front mitred pockets with flap and button closure.

• Available in 25mm FR reflective: WRS40021.



EVAPORATIVE
COOLING



DURABILITY



LIGHTWEIGHT



INHERENT FR



FR THREAD

i-arc



CODE: WTCH40021

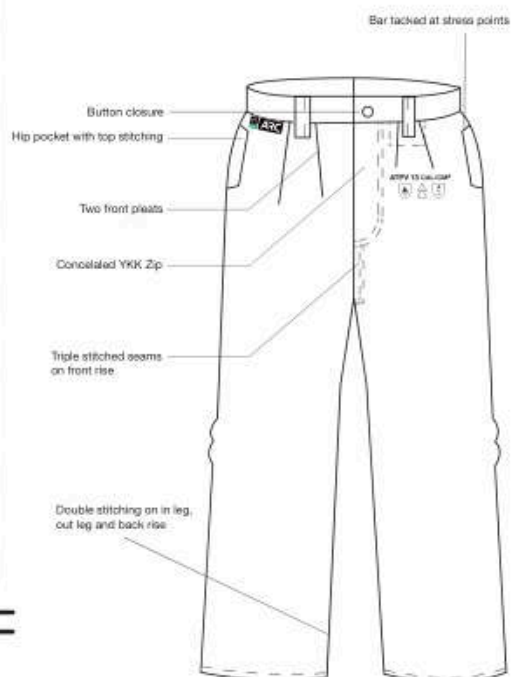
CHINO TROUSERS



IN STOCK



Navy

FABRIC: • I-ARC (LENZING FR, ARAMID, ANTI-STATIC BLEND).**ATPV:** • 13 CAL/CM².**WEIGHT:** • 215gsm.**SIZES:** • 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
48 | 50 | 52 | 54 | 56**CLOSURES:** • Concealed YKK brass zip – Type 5 | Front Button Closure.**STITCHING:** • Triple stitched seams on front rise for enhanced durability.**POCKETS:** • Front Swing Pockets | Back Hip Pockets with button closure.

YKK ZIP

EVAPORATIVE
COOLING

DURABILITY



LIGHTWEIGHT



INHERENT FR



FR THREAD

i-arc



ARC HAZARD RISK CATEGORY 2

CODE: WTBC40021

BALACLAVA



Eye opening with cover seam

Cover seam at hemline

IN STOCK



FABRIC: • I-ARC (LENZING FR, ARAMID, ANTI-STATIC BLEND).

WEIGHT: • 220gsm.

SIZES: • One size fits all.

STITCHING: • Meta Aramid inherent FR thread used for all stitching | Cover seams stitching at hemline.

COMFORT: • Easy breathability through fabric.



EVAPORATIVE COOLING



DURABILITY



LIGHTWEIGHT



INHERENT FR



FR THREAD

i-arc



ARC HAZARD RISK CATEGORY 2

CODE: WTGV40022

GLOVE



Zig-zag seams for enhanced durability

Thermal resistant anti static blend

IN STOCK



FABRIC: • I-ARC (LENZING FR, ARAMID, ANTI-STATIC BLEND).

ATPV: • 14.9 CAL/CM².

WEIGHT: • 220gsm.

SIZES: • 6 - 12.

STITCHING: • Meta Aramid inherent FR thread used for all stitching | Zigzag seams stitching at hemline.



EVAPORATIVE COOLING



DURABILITY



LIGHTWEIGHT



INHERENT FR



FR THREAD

i-arc



CODE: WTFP40021

ARC FLASH VISOR WITH NIKKI HARD HAT



- SIZE:** • One size fits all.
- ATPV:** • 18 CAL/CM².

VISOR

COLOURS AVAILABLE: • Green.

- KEY FEATURES:**
- Protection against extreme temperatures.
 - Anti-scratch.
 - Best optical class.
 - Protection against extreme temperatures.
 - Chin protector.
 - Better colour clarity.
 - Colour Vision technology.

- STANDARDS:**
- This product is manufactured in South Africa for the BBF Safety Group (Pty) Ltd. in an ISO 9001 accredited factory.
 - GS-ET 29 / ANSI Z87.1 / ASTM F2178/08

HARD HAT

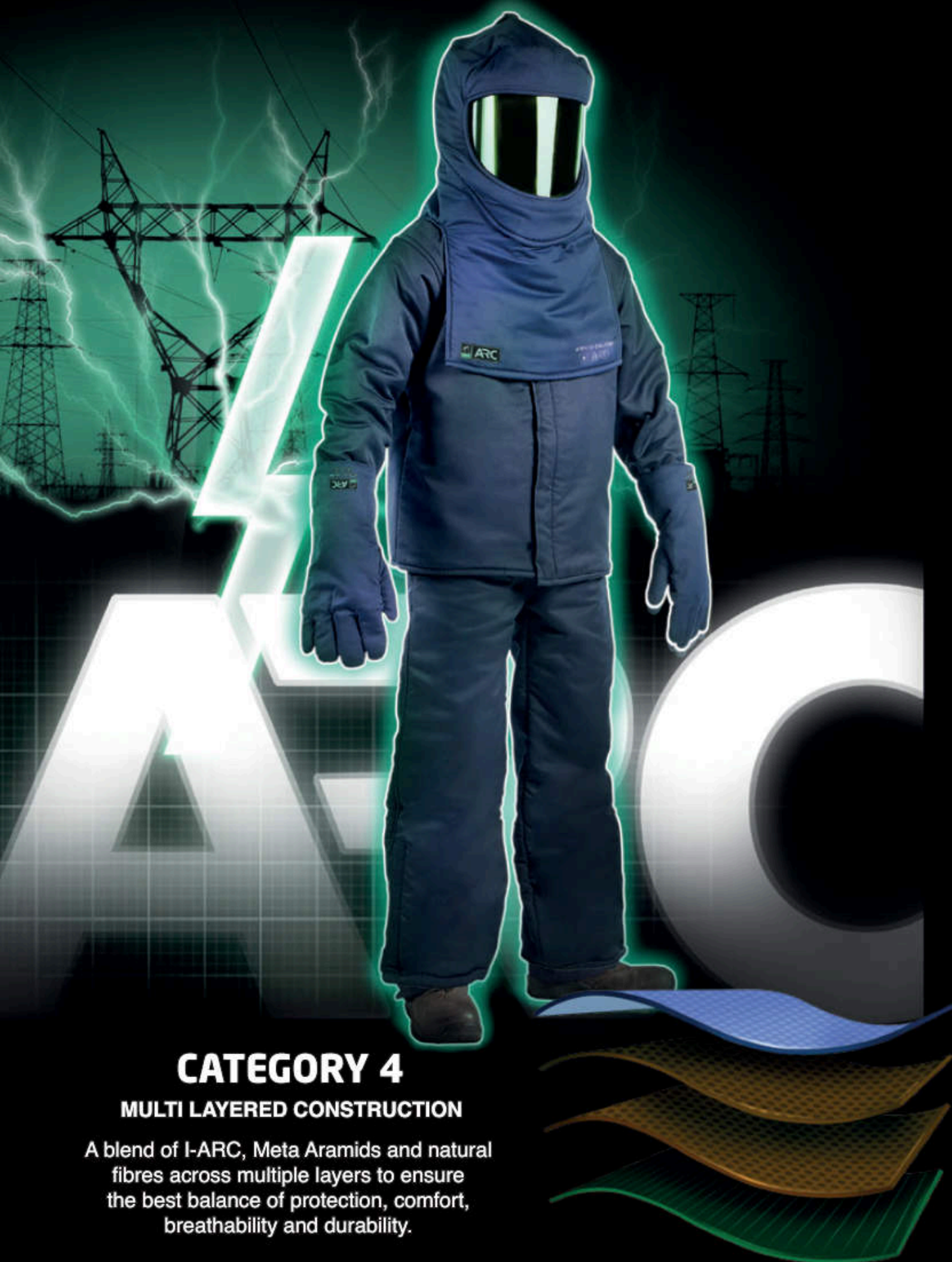
- SIZE:** • One size fits all.

COLOURS AVAILABLE: • White.

COMPOSITION: • Nikki 1 hard hat made of ABS plastic.

- KEY FEATURES:**
- Superior rigidity, protection and durability.
 - Inner of hard hat shell is engineered with reinforced ribs for increased protection against impact and lateral deformation.
 - Turn top adjustable crown vent allows for double crown protection; it also allows for one hand adjustment to open for breathability or close for protection from chemical, liquids or falling gravel and rocks.
 - Integrated slots that allow for the majority of accessories (earmuffs, face shields & visors).
 - 4 point comfort ratchet lining for easy one-handed adjustment with Permasweat breathable sweatband and high visibility rear insert.
 - Anti-glare peak.
 - Ultra-violet inhibitor protects and extends life of helmet.
 - Supporting ridge for cap attachment spring.
 - Contoured rain channel allows liquid to run off front of peak rather than down neck and shoulders. Also provides additional lateral rigidity for more protection from lateral deformation. Ideal for high angle work situations.

- STANDARDS:**
- This product is manufactured in South Africa for the BBF Safety Group (Pty) Ltd. in an ISO 9001 accredited factory.
 - ARC rated and electrical insulation - tested to 18CAL/CM² and 1000 volts dielectric
 - Designed to exceed the European standard (EN 397 :1995) for Lateral Deformation. (Up to three times that of similar hard hats on the market).



CATEGORY 4

MULTI LAYERED CONSTRUCTION

A blend of I-ARC, Meta Aramids and natural fibres across multiple layers to ensure the best balance of protection, comfort, breathability and durability.



CODE: WTJH50041

SWITCHING JACKET



IN STOCK



Navy

MADE TO ORDER



Orange



Fern Green

FABRIC: • A BLEND OF I-ARC, META ARAMIDS AND NATURAL FIBRES ACROSS MULTIPLE LAYERS.

ATPV: • 52 CAL/CM².

WEIGHT: • 764gsm.

SIZES: • 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60

CLOSURES: • Concealed YKK brass zip - Type 5 with under the storm flap and hook and loop closure | Elasticated cuffs | Adjustable neck hook and loop closure | Right hand side zip guard for added protection.

STITCHING: • Meta Aramid inherent FR thread used for all stitching | Top stitched stress seams for enhanced durability | Bar tacked at stress points for extra strength.

COMFORT: • High front for maximum upper body protection | Padded diamond shaped underarm extension for easy movement.



YKK ZIP



EVAPORATIVE COOLING



DURABILITY



LIGHTWEIGHT



MULTI LAYER



INHERENT FR



FR THREAD

i-arc



CODE: WTBT50041

BIB & BRACE



IN STOCK



Navy

MADE TO ORDER



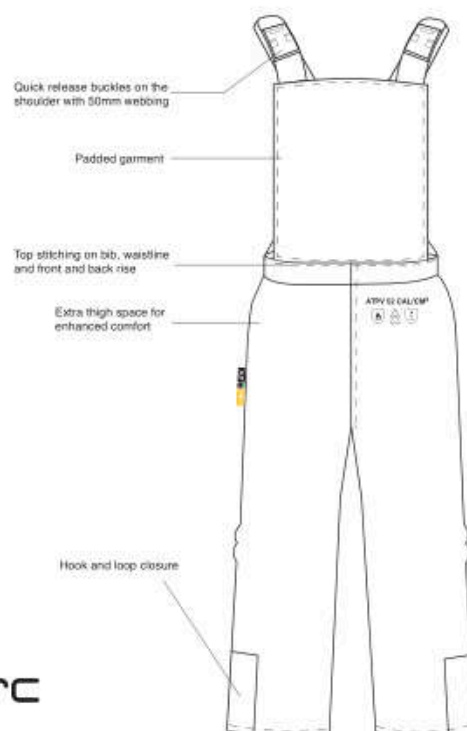
Orange



Fern Green

- FABRIC:** • A BLEND OF I-ARC, META ARAMIDS AND NATURAL FIBRES ACROSS MULTIPLE LAYERS.
- ATPV:** • 52 CAL/CM².
- WEIGHT:** • 764gsm.
- SIZES:** • 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48

- CLOSURES:** • Adjustable braces with 50mm webbing and quick release buckles.
- STITCHING:** • Meta Aramid inherent FR thread used for all stitching | Top stitched stress seams for enhanced durability | Bar tacked at stress points for extra strength.
- COMFORT:** • High front for maximum upper body protection | Inside excess fabric on either side of the hip forming a pocket with bottom opening.



YKK ZIP



EVAPORATIVE COOLING



DURABILITY



LIGHTWEIGHT



MULTI LAYER



INHERENT FR



FR THREAD

i-arc



ARC HAZARD RISK CATEGORY 4

CODE: WTHV50041

HOOD WITH NIKKI HARD HAT & VISOR

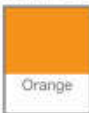


IN STOCK



Navy

MADE TO ORDER



Orange



Fern Green

FABRIC: • A BLEND OF I-ARC, META ARAMIDS AND NATURAL FIBRES ACROSS MULTIPLE LAYERS.

ATPV: • 52 CAL/CM².

VISOR: • Light green moulded polycarbonate dual layer electric ARC faceshield featuring:
• Protection against extreme temperatures, ARC rating tested with complete hood system.
• 44% Visible Light Transmission (VLT)
99,9% UV protection
• Anti-fog and anti-scratch.

HARD HAT: • Nikki 1
(please refer to spec under Category 2)

WEIGHT: • 764gsm.

SIZES: • One size fits all.

STITCHING: • Meta Aramid inherent FR thread used for all stitching | Top stitched at the opening of hood for enhanced durability.

COMFORT: • Fits snugly over head and shoulders | Two side openings | Moulded visor.

i-arc



EVAPORATIVE COOLING



DURABILITY



LIGHTWEIGHT



MULTI LAYER



INHERENT FR



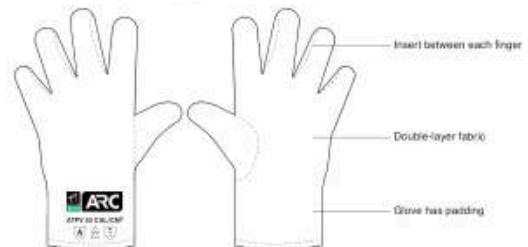
FR THREAD



ARC HAZARD RISK CATEGORY 4

CODE: WTV70031

GLOVE



IN STOCK



Navy

MADE TO ORDER



Orange



Fern Green

FABRIC: • A BLEND OF I-ARC, META ARAMIDS AND NATURAL FIBRES ACROSS MULTIPLE LAYERS.

ATPV: • 42.2 CAL/CM².

WEIGHT: • 764gsm.

SIZES: • One size fits all.

STITCHING: • Meta Aramid inherent FR thread used for all stitching | Top stitched at the opening of gloves for enhanced durability.

COMFORT: • Padded gloves for additional protection in extreme conditions.

i-arc



EVAPORATIVE COOLING



DURABILITY



LIGHTWEIGHT



MULTI LAYER



INHERENT FR



FR THREAD

THE BOVA ARC EXTENDED RANGE OFFERING

PU RUBBER - ELECTRIC RESISTANT FOOTWEAR

The range is engineered with specialised technologies that help to protect the wearer in extreme environments, from the sole construction right through to the linings and exterior additions to the boots.



Nebula (43603)

ELECTRICAL
RESISTANCE
TO 20KV FOR
60 SECONDS
(ESKOM SPEC
34-232)



Firewalk (42003)



Rigger Pro (43605)

DUAL COMPOUND RUBBER - HEAT RESISTANT FOOTWEAR

DCR is an innovative soling technology utilising two different layers of rubber where the soles are directly injected onto the uppers for a superior bond, thereby increasing the longevity of the product.

This technology offers vastly improved durability, superior heat resistance, waterproofing and enhanced shock absorbency without compromising comfort. The DCR Range of safety footwear is engineered to deliver superior performance in harsh environments, while reducing the replacement cycle of soling units containing Polyurethane.



Gabbro (7140)



Patriot (7010)



Igneous (7150)



Granite (7900)

BOVA FLAME RETARDANT SMELTER SOCKS

- Engineered with flame retardant yarn specifically for the hot metal industry. The calf length socks are knitted using specialised flame retardant yarns, imported from the USA and Switzerland and are reinforced at both the toe and heel.
- Designed with a fine needle count for a superior soft feel and to create density in the knit to prevent molten matter from penetrating the sock or attaching to the surface (compliant with the SABS 1423-1/1987 flame retardancy requirements, category 1).



WEBBING AND HARNESSSES:

Engineered from Para-Aramid / Meta-aramid blended webbing, our harnesses are engineered for those who are exposed to sparks and high heat whilst working at heights.



Spark Harness
(HARN60000)



40 CAL/CM² Arc Harness
(HARN70000)



40 CAL/CM² Spark Lanyard
(LANY05520)

COMPLIANCY AND STANDARDS RECOMMENDATIONS FOR ARC FLASH PPE

COMPLIANCY AND STANDARDS:

Recommendations for ARC Flash PPE: An arc flash study is to be conducted prior to recommendations on PPE. Do not make recommendation on PPE without customer supplied, incident energy level as determined by an arc flash study. An arc flash study is based on recommendations set forth by the National Fire Protection Association (NFPA) but also relies on mandated industry standards and regulations from OSHA, the Institute of Electric and Electronics Engineers (IEEE) and the National Electric Code (NEC). The study looks at the electrical system design, equipment, system specifications and safe practice procedures. Calculations are used to determine the arc flash incident energy within specific boundaries of the equipment and measure the degrees of risk.

1. ENSURE THAT AN ARC FLASH STUDY IS CONDUCTED

To calculate potential arc flash incident energy and determine boundaries around the equipment that each carry varying degrees of risk. You can read more about incident energy and arc flash boundary calculations in the IEEE Standard 1584-2002 and IEEE Standard 1584a-2004, Amendment 1 and IEEE Standard 1584b-2011 Amendment

2. APPLY WARNING LABELS

Apply detailed and durable arc flash hazard warning labels for field-marking potential arc flash hazards. These labels must include both arc flash hazard and shock hazard boundaries.

3. PPE

Adds another layer of protection for employees working within the arc flash boundary. Failure to wear the proper protective clothing and equipment puts you at serious risk of injury or death in the event of an arc flash. Even though this is the last line of defense it is critical not to compromise on quality.

Bova Arc garments meet the requirements of NFPA 2112, standard on flame-resistant garments for protection of industrial personnel against flash fire, 2012 edition. NFPA2113 requires upper and lower body coverage.

Bova Arc garments further meet the requirements of SANS 724, IEC 61482, ASTM F1959, ASTM F1506, ASTM F2621 and NFPA 70E for electric arc protection.

WORKERS ARE ASSUMED SAFE IF THE FOLLOWING CONDITION IS FULFILLED:

ARC RATING OF
PROTECTIVE CLOTHING



CALCULATED ARC
INCIDENT ENERGY

Incident Energy Rating

Minimum ATPV of Protective Garment

HOW TO CARE FOR BOVA ARC PRODUCTS

BOVA ARC PRODUCTS ARE MANUFACTURED USING BEIER I-ARC, INHERENTLY FLAME RESISTANT FABRIC OFFERING SUPERIOR COMFORT AND PERFORMANCE

GARMENT CARE

Wash the garment frequently to ensure that no grease, oily soils and other flammable contaminants are present when the garment is worn. Inspect the garment before each use for damage or any contaminants that will impair the protective qualities of the garment. Repairs to the garment must be made with flame-resistant components.

WASHING INSTRUCTIONS

Garments made with Beier I-ARC fabrics can be cleaned by home or commercial laundry or by dry-cleaning procedures without loss of their inherent protective features.

If home procedures do not remove contaminants, commercial laundering or dry cleaning is recommended. Launder garments, made with Beier I-ARC, separately from personal or non-flame-resistant clothing to help avoid contamination by flammable materials.

TO PROLONG LONGEVITY OF THE GARMENT:

- Do not wash garments in hot water with heavy-duty detergent.
- Do not use chlorine bleach or detergents containing chlorine bleach.
- Do not boil.
- Tumble dry garments at a low setting.

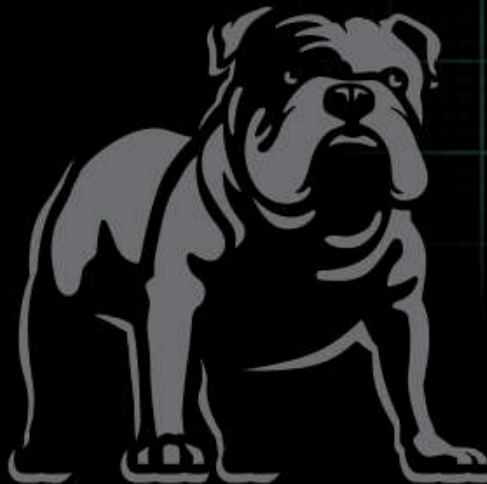


Washing and care guidelines must be followed in order to attain 200 wash conformance.

WARNINGS: For electric arc exposure, wear the correct flame-resistant clothing as indicated by an electric arc hazard analyst.

In potentially explosive environments, proper grounding procedures must be used for protection against electrostatic spark ignition. Do not put on or remove garments when in a potentially explosive environment.

Flammable contaminants will reduce the thermal protection of any flame-resistant garment. Damaged, strained or worn areas will reduce the thermal protection properties of any flame-resistant garment.



SIZE CHART

JACKETS, DUST COATS, SHIRTS

CHEST MEASUREMENTS

INCHES	32	34	36	38	40	42	44
CM	82	87	92	97	102	107	112
SIZE	XS	S		M		L	

INCHES	46	48	50	52	54	56	58	60
CM	117	122	127	132	137	142	147	152
SIZE	XL		XXL		XXXL		XXXXL	

NOTE: Jackets and dust coats are to be ordered by chest size and trousers to be ordered by waist size. Use trouser's waist measurement and increase by two sizes to determine corresponding jacket chest size.

TROUSERS , BIB & BRACE

WAIST MEASUREMENTS

INCHES	28	30	32	34	36	38	40
CM	72	77	82	87	92	97	102

INCHES	42	44	46	48	50	52	54	56
CM	107	112	117	122	127	132	137	142

NOTE: Trousers to be ordered by waist size and jackets to be ordered by chest size. Use trouser's waist measurement and increase by two sizes to determine corresponding jacket chest size.

BOILER SUITS

CHEST MEASUREMENTS

INCHES	30	32	34	36	38	40	42
CM	77	82	87	92	97	102	107
SIZE	XS		S	M		L	

INCHES	44	46	48	50	52	54	56	58	60	62
CM	112	117	122	127	132	137	142	147	152	157
SIZE	XL		XXL		XXXL		XXXXL		XXXXXL	

CORRELATING WAIST MEASUREMENT:

INCHES	28	30	32	34	36	38	40
CM	72	77	82	87	92	97	102

INCHES	42	44	46	48	50	52	54	56	58
CM	107	112	117	122	127	132	137	142	147

NOTE: Boiler suits to be ordered by chest measurement. Check chest measurement table for corresponding waist size. Use trouser's waist measurement and increase by two sizes to determine corresponding jacket chest size.



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