



YOUR LAST LINE OF DEFENCE®

CHARNAUD®



Why you should choose **SURVIVE-ARC®**

- ➔ SURVIVE-ARC® personal protective wear provided proven protection against the thermal effects of an electric ARC FLASH for almost two decades. These products are used as part of appropriate sets of PPC to protect against the hazards of an electric arc flash.
- ➔ SURVIVE-ARC® protective wear ranges from low to high levels of protection in order to provide solutions for all types of electrical work environments. **CHARNAUD®** assists the end user to select the appropriate sets of protective PPC and E.
- ➔ SURVIVE-ARC® protective wear is comprehensively tested and triple certified to international performance standards (NFPA 70E; IEC 61482-2 and SANS 724) as well as CE Marked.
- ➔ All SURVIVE-ARC® garments are made from comfortable-to-wear, permanently flame resistant (FR) and arc rated (AR) materials

The features of **SURVIVE-ARC®**

- ➔ Made from inherently flame-resistant fabric.
- ➔ Guaranteed flame-resistant for the life of the garment.
- ➔ Excellent breath ability, absorbs sweat and moisture.
- ➔ Cool in summer and warm in winter.
- ➔ Water washable, performance unaffected by washing (see guidelines).

SURVIVE-ARC® meets the following requirements:

- | | |
|---------------|--------------|
| ➔ NFPA 70E | ➔ ASTM F2178 |
| ➔ IEC 61482-2 | ➔ ASTM F2621 |
| ➔ SANS 724 | |

What is an **ELECTRIC ARC FLASH?**

- The National Fire Protection Association (NFPA) describes an Arc Flash Hazard as “A dangerous condition associated with the release of energy caused by an electric arc.”
- An arc flash happens when an electric current passes through air between ungrounded conductors, or between ungrounded conductors and grounded conductors (NFPA).
- An arc flash can result from inserting a tool in the wrong place or dropping a tool into a circuit breaker, where conductive dust or humidity are present, or a failure of equipment.
- Forces may exceed 100kPa (KiloPascal), and debris is spread up to 300 metres/second with temperatures of up to 20 000°C.
- This energy is in the form of a blinding flash of light and a deafening noise. In this explosion, a gigantic amount of concentrated energy is forced outward from the electrical equipment toward the electrical worker, spreading super hot gases and a shower of molten metal droplets.
- When copper is super heated to 10 000°C and above it instantly vapourises into a gas. This causes the volume to expand instantly by 67 000 times.



The features of **SURVIVE-ARC®**

- Made from inherently flame-resistant fabric.
- Guaranteed flame-resistant for the life of the garment.
- Excellent breath ability, absorbs sweat and moisture.
- Cotton comfort: cool in summer and warm in winter.
- Water washable.

*Permanently
FLAME RESISTANT
and **ARC RATED** garments
for protection against
the **THERMAL EFFECTS**
of an **ELECTRIC
ARC FLASH***



SURVIVE-ARC®
SWITCHING SUIT

ATPV 50 cal/cm² CAT 4



SURVIVE-ARC®
SWITCHING SUIT

ATPV 100 cal/cm² CAT 4



SURVIVE-ARC[®]
BUTTON-UP SHIRTS

ATPV 8-12 cal/cm² CAT 2



ALSO AVAILABLE IN:
ladies design
and fit

- easy fit and light weight
- very comfortable
- high moisture absorbency

POCKETS
button closure
pockets on front



FRONT
button closure



SURVIVE-ARC[®]
CHINOS

STRETCH DENIM TROUSERS

CHINO NAVY TROUSERS ATPV 8 - 21 cal/cm²

STRETCH DENIM JEANS ATPV 12 cal/cm²



FRONT CLOSURE
FR zip fly



POCKETS
two side entry
pockets, two back
jet pockets



POCKETS
two back pockets

NEW
available in ladies
design and fit



SURVIVE-ARC®

CONTI SUIT (two-piece work suit)

ATPV 12-21 cal/cm² CAT 2



SURVIVE-ARC®

ONE-PIECE COVERALL

ATPV 8-21 cal/cm² CAT 2





SURVIVE-ARC®
KNITTED POLO SHIRT

ATPV 10.9 cal/cm² CAT 2

COLLAR
with three
button closure



KNITWEAR
also available as a
long sleeve T-shirt
(round collar)



CUFF
rib knit



SURVIVE-ARC®
WINTER JACKET

40 cal/cm² CAT 4



SURVIVE-ARC®
WINTER SWEATSHIRTS

21 cal/cm² CAT 2



V-NECK



HENLEY



ACCESSORIES



BACKPACK
For transporting all arc flash-protective wear



CARRY BAG
For transporting all arc flash protective wear



BOXER UNDERPANTS
ATPV 10.9 cal/cm² CAT 2



LONG JOHNS
ATPV 10.9 cal/cm² CAT 2



LONG SLEEVE T-SHIRT
ATPV 10.9 cal/cm² CAT 2



BELT
Leather belt with Velcro closure, Metal Free. Arc rated to ATPV 40 cal/cm² CAT 4



REFLECTIVE WAISTCOAT
ATPV 8 - 12 cal/cm² CAT 2



REFLECTIVE BRACES
ATPV 8 - 12 cal/cm² CAT 2

HAND AND FOOT



A 16 GLOVE
ATPV 16 cal/cm² CAT 2



KNITTED GLOVES
ATPV 12 - 28 cal/cm² CAT 2-3



INSULATING RUBBER GLOVES
Class 0 Voltage rated 1000



LEATHER OVERGLOVES
250mm - 310mm length



INSULATING AR/VR RUBBER GLOVES
ARC rated: ATPV 21.6 cal/cm² CAT 2
Voltage rated: 1000V



CHARNAUD® FR SOCKS
Molten-metal splash, Heat and flame resistant



E20300 SAFETY BOOT
Half boot with soles 20kV shock resistant (EH) and 300°C resistant.



DIELECTRIC SAFETY BOOTS
Vulcanized, dielectric rubber

PLEASE NOTE: all accessories to be worn with other appropriate protective wear

PLEASE NOTE: all accessories to be worn with other appropriate protective wear

HEAD ACCESSORIES



HEADGEAR KIT - LIGHT GREEN
ATPV 12 -25 cal/cm² CAT 2



CHARNAUD® BEANIE
250 g/m²
ATPV 14 cal/cm² CAT 2



BALACLAVA
ATPV 12 - 28 cal/cm² CAT 2-3



GOGGLE-AND-BALACLAVA KIT
ATPV 45 cal/cm² CAT 4



GOGGLES
ATPV 12 and 45 cal/cm² CAT 2-4



DIELECTRIC HARDHAT



HEAD SCARF
ATPV 10.9 cal/cm² CAT 2

COMING SOON

SURVIVE-ARC® FACE SHIELD

Provides excellent field of view with ergonomic design, is permanent anti-fog and optically correct.

PRODUCT

- The Survive-Arc® Headgear Kit consists of 2 components: a face shield with a permanently attached chin protector and a separate bracket for attachment to a helmet/hard hat.
- The components must be used together to achieve the arc rating as indicated.

COLOUR

- Light grey “TRU VISION” face shield and chin protector.

HAZARD ASSESSMENT

- Thermal effects from electric arc flash.

APPLICATION

- Arc flash face shield used in the electrical industry with arc rated work wear.

FEATURES - LIGHT GREY “TRU VISION” FACE SHIELD

- Arc rated at ATPV 20 cal/cm².
- State of the art lens technology - no colour distortion of electrical wiring.
- Highly transparent (HT™) and permanent anti-fog for high humidity conditions.
- The extra large chin protector in light grey “TRU VISION” provides same optical properties as the face shield for excellent downward vision, as well as additional protection to the chin and neck areas.
- Ergonomic design with excellent field of view.

STANDARDS - LIGHT GREY “TRU VISION” FACE SHIELD

- NFPA 70E
- ANSI Z87+S
- CE certified (Pending)





SURVIVE-ARC®

A16 GLOVE

Provides superior dexterity that allows the smallest and most delicate tasks to be performed whilst offering exceptionally high levels of protection.

PRODUCT

- Seamless knitted glove with extended elasticated wrist cuff and FR synthetic rubber coated palm and fingers.
- Glove arc rated ATPV 16 cal/cm² with coated palm and fingers ATPV 40 cal/cm².

COLOUR

- Olive green glove with black coating on palm and fingers.

SIZE

- 7 - 11

APPLICATIONS

- Hand protection against thermal injuries of an electric arc flash, cuts and abrasion.

HAZARD ASSESSMENTS

- Exposure to arc flash, sharp edges and the presence of oils and greases.

FEATURES

- Flexible comfortable fit provides high dexterity when working with small wires and parts.
- Excellent cut resistance level 5
- High abrasion resistance level 3.
- Water washable.
- Anti-static.
- Excellent grip in dry as well as wet and oily conditions.

STANDARDS

- Arc flash: NFPA 70E; ASTM F2675.
- Flame-resistant: EN 407.
- Cut protection: EN 388; ANSI/ISEA.
- CE Certified Category II



COMPLETE PRODUCT RANGE BY CHARNAUD®



ELECTRIC ARC FLASH PROTECTIVE WEAR

SURVIVE-ARC® protective wear is made from certified, comfortable to wear, permanently flame-resistant and arc-rated material to protect the worker against the thermal effects of an electric arc flash. SURVIVE-ARC® comprises a head-to-foot range of protective wear designed for the electrical worker. SURVIVE-ARC® garments are guaranteed permanently flame resistant for the life of the garment. Fabrics, garments and accessories are certified to international standards.



HOT METAL PROTECTIVE WEAR

The METAL-SAFE® head-to-foot range of protective wear is designed to offer protection against molten metal splash, radiant heat, flames and welding. This range is ideal for smelters, cast houses, furnaces, severe hot-metal applications and metal construction work. The range offers various work wear garments such as casting suits, smelter garments, casual flame-resistant work wear, undergarments, as well as accessories such as face protection, gloves, socks and boots. Fabrics, garments and accessories are certified to international standards.



GARMENTS FOR COLD CONDITIONS

ZERO-TECH® garments protect and enhance a worker's performance in cold conditions. Garments may either be flame resistant or non-flame resistant with a waterproof option available. These garments can be used in a variety of industries ranging from large industrial freezers to security, rescue and maintenance work on mines. Fabrics, garments and accessories are certified to international standards.



INDUSTRIAL RAIN WEAR

AQUA-TECH® are industrial waterproof work wear garments made from PVC-coated fabrics available in different weights for light to heavy-duty industrial use. The PVC is coated onto a strong woven polyester base fabric, which protects in hazardous environments and lasts much longer than other unsupported fabrics. These garments are ideal for use in butcheries, agriculture and mining applications.



ALUMINUM SPLASH PROTECTIVE WEAR

ALU-SAFE® is an internationally certified unique high-performance work wear fabric and garment system to protect workers against the hazards of molten aluminum and cryolite (reduction cell flux) splash in primary aluminum smelters and downstream operations. In addition to its unique molten-metal shedding ability (aluminum and cryolite stick to all other known types of material), ALU-SAFE® is inherently flame resistant for the life of the garment and the brand comprises a head-to-foot range of protective wear. The comfortable-to-wear natural-fibre ALU-SAFE® protective wear is water washable in industrial laundries. Fabrics, garments and accessories are certified to international standards.



FIRE PROTECTIVE WEAR

FIRE-SAFE® comprises a full range of permanently flame-resistant work wear garments for protection against flames or fires. Widely used in the following industries: petroleum, chemical, gas, explosives, ferrous and non-ferrous metal, fire-fighting, motor, emergency services and welding. Full head-to-foot protection is available via a range of accessories including high-heat resistant furnace boots, work boots, helmets, face shields and gloves. Fabrics, garments and accessories are certified to international standards.



ACID SPLASH PROTECTIVE WEAR

ACI-FLAM® are unique and highly specialised work wear garments which offer protection against highly concentrated and dangerous acids such as 98% sulphuric acid, and have the additional benefit of being inherently flame resistant. No other fabric on the market has the same built-in guaranteed dual protection. Fabrics and garments are certified to international standards.



GARMENTS FOR HOT CONDITIONS

COOL-TECH® is a effective BODY cooling technology designed to assist a person working in a HOT environment where ambient temperatures are elevated, and in addition, where strenuous and hazardous work environment will add to an increase in the body core temperature of the worker, and where the Heat Stress and Heat Stroke are then possible/likely resultant dangers.

SOUTH AFRICA

AJ Charnaud & Co (Pty) Ltd.
tel: +27 (0) 11 794 6040
email: jhb@charnaud.co.za
WWW.CHARNAUD.NET

EUROPE

AJ Charnaud (UK) Ltd.
tel: +44 (0) 113 3507 651
email: sales@charnaud.eu
WWW.CHARNAUD.NET

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