

Arc Flash Fact Sheet

Head & Face

Electric arc flash is one of the least understood hazards of electricity and prevalent in most industries with around 1,000 electrical accidents at work each year and as many as 25¹ people dying from their injuries. Most electrical accidents occur because people are working on or near equipment that is thought to be dead or known to be live but those involved are not properly prepared.

¹HSE Electrical Safety at Work

The Arc Flash Protection Programme from J&K Ross helps you understand the potential risks from arc flash incidents, the control measures that may be needed and whether the provision of PPE is appropriate. Follow the three stage process to find out ...

Risk Assess

Implement a risk assessment to identify the possibility of an arc flash in your working environment.

React

If necessary, carry out an arc flash study to determine the potential intensity - how big is the bang?

Realise

Put control measures in place to reduce or eliminate the risk. Only provide correct personal protection if this isn't possible.



Personal Protective Equipment (PPE) is the last line of defence.

All reasonable and practical control measures should be in place before it is issued.

ARC BAN[®]

Introducing arc flash protection clothing incorporating DuPont[™] Nomex[®]

www.arcflashprotection.co.uk

ARCBAN® hood (3 layer) made from Nomex®

DuPont™
Nomex®



An electric arc flash creates a conducting plasma fireball with temperatures in the core that can reach upwards of 20,000°C. At the same time, it can also produce a very bright light and loud noise, flying debris, hot gases, smoke and fumes and even explosive pressure levels. It is as important to protect the head and face as well as the body although currently there is no arc flash standard for PPE.

It is advisable to provide head and face protection that achieves an ATPV value that at least matches the value of the chosen garments.

ARCBAN® arc flash protection clothing includes a range of head and face protection:

- **ARCBAN® Paulson Arc Flash Protective Faceshield**
- **ARCBAN® hood made from Nomex®**
- **ARCBAN® “Switching” Hood**

ARCBAN® Hood made from Nomex®

(ATPV = 40 cal/cm²)

ARC PROTECTIVE three layer hood HN500 with wide front and back mantle (mantle is 7.6 cal/cm² only), giving protection against the thermal hazards of an electric arc and also against accidental contact with heat and flame. Outer layer made from durable, antistatic, rip stop fabric of Nomex® Comfort fibres. Middle layer of antistatic, pique fabric made from Nomex® Comfort fibres, inner layer also durable, antistatic, rip stop fabric of Nomex® Comfort fibre.

This hood should be worn with a suitable protective visor that is known to provide sufficient heat and light energy attenuation - the current EN standard does not provide for such measurement - you may therefore consider using data gained from the ASTM test method.

Picture shows ARCBAN® Paulson visor mounted on a safety helmet

Hood Specification

- Comfortable and machine washable
- EN531 A B1 C1
- Compliant with the requirements of EN1149-3:2004 and EN1149-5:2006-04
- Fabric assembly (hood only) achieves 40 cal/cm² in open arc test method IEC 61482-1-1
- Outer fabric meets IEC 61482-1-2 (arc in a box) Class 1 (4KA)

PPE supplied should match the calculated level of risk to ensure adequate protection.

Call us to discuss your complete arc flash requirements. If you haven't found what you are looking for we can develop bespoke garments (subject to quantity). All garments can be customised with your logo, assisting with corporate identity.

Web: arcflashprotection.co.uk

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The ARCBAN range also includes garments for outdoor wear and workwear as well as gloves to protect the hands.

Visit our website to download factsheets on: Workwear, Hand Protection and Outdoor wear



ROSS
Quality Protective & Safety Wear

As specialists in Arc Flash Protection J&K Ross has developed the Arc Flash Protection Programme incorporating ARCBAN® clothing made with DuPont™ Nomex® to help you understand the potential risks from arc flash accidents, what control measures you may need to adopt and if personal protective equipment is required.