

Arc Flash Fact Sheet

Hand Protection

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® orange three layer Nomex® gauntlets

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 hand protection:

- **ARCBAN® glove made from Nomex®**
- **ARCBAN® orange three layer Nomex® gauntlets**
- **ARCBAN® DEHN Gloves**

ARCBAN® orange three layer Nomex® gauntlets (40 cal/cm²)

This gauntlet is purpose designed to provide the optimum combination of protection and dexterity, it is constructed from the same fabric combination as our three layer garments and has an extended cuff to ensure no gaps between the gauntlet and jacket sleeve.

Standards: EN 407 : 2004 4 1 X 3 X X
EN 420

Fabric assembly tested using IEC 61482-1-1 (open arc method) achieving 40 cal/cm², outer layer to IEC 61428-1-2 (arc in a box) achieving Class 1 (4KA)

It should be used in conjunction with garments that offer the same or greater level of protection (40 cal/cm²) - this gauntlet is available as part of a 40 cal/cm² "kit".

N.B. This glove DOES NOT PROVIDE PROTECTION FROM ELECTRIC SHOCK!

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

Email: safety@jkross.co.uk

Tel: +44 (0)1925 645645

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.