

eagle technical products ltd

## **INNOVATIONS IN FR & ARC FLASH PROTECTION**

One of Europe's leading manufacturers of bespoke technical workwear. We have leading specialists within the organisation who are experienced in technical garment manufacture to the latest European standards.

## **SAFETY FIRST** Complete solutions, uncompromising quality.

Protecting your people is what we do. We won't compromise their safety, so we don't compromise on the quality of our products.

We work with you to establish precisely what your requirements are and then create a safety solution that delivers. As an established industry expert, we have years of experience in doing just that. As part of our tailored solutions, we work with world leaders in fabric development and innovation. Whatever the requirement, we ensure you get the right product for the job.

Eagle is an experienced industry expert, providing tailored PPE solutions.

2

We work to European safety standards, ensuring you're working safely.

3

Our fabric partnerships enable us to provide you with first-rate protection.

# SAFETY IN NUMBERS

Eagle has more than 20 years experience in providing the very highest standard of protective clothing.

We work with a wide cross section of operatives who need the highest levels of performance from their equipment. As such, we always provide solutions you can rely on. We work to established industry standards, ensuring all our products are of the very highest quality and adhere to all relevant regulations. As your expert PPE partner, we make sure your people are protected and your business is compliant.

ctricity	is a spark discharge which can	mixture
hazard of static electricity	discharge	ignite a flammable mixture
hazard of	is a spark	ianito a fl:

**16V** can be fatal to a human when electricity passes through organs such as the heart.

## EN 1149

**Electrostatic properties** of protective clothing. These garments are used in environments where there is a risk of explosion eg Gas, Petrochemical

## EN ISO 11611

Protective clothing for use in welding and allied processes. The protective clothing is intended to protect the wearer against small splashes of molten material.

## IEC61482-1-1 Open ARC Test

The ARC rating is most commonly quantified by the Arc Thermal Performance Value (ATPV) determined according to IEC/EN 61482-1-1/Method A. The ATPV represents the maximum incident thermal energy in units of energy per surface area (e.g. kJ/m2 or Cal/cm<sup>2</sup>) that a fabric/garment can support before the wearer will suffer second-degree burns.

of fatalities in the oilfields result

of fatalities in the oilfields result from A fire and explosions.

Protective clothing against heat and flan standard specifies the performance requirenents for garments which protect the body rom heat and flame (except the hands).

## ) Arc flash

can occur vaporizing

metal into a gas and

heating the air so that it

🖕 creates a pressure wave

called an "arc blast."

## IEC 61482-1-2 Arc in a box test

'Box arc' test method published as EN 61482-1-2 in March 2007. The 'Box arc' test method is based on the original European method described in ENV 50354, with a heat transfer measurement. Materials or assemblies are classified as Class 1 (4 kA) or Class 2 (7 kA).

## ADVISE > DESIGN > MANUFACTURE

# SAFETY TO THE HIGHEST STANDARD

Your safety solution starts with a conversation. We combine our unique industry expertise with your individual requirements to build a complete picture, then work with you to provide the most appropriate safety solution.

Our range of protective clothing features garments designed for a wide variety of demanding tasks. Whatever the application, we ensure our products are suited to the task and are of the very highest quality to guarantee the safety of your people. If we don't stock exactly what you need in our extensive range, we can offer a bespoke design service and manufacture it to meet your requirements.

Layered Approach

We can work with you to achieve a rating upto 40  $\mbox{Cal/m^2}.$ 

Please contact us to discuss your requirements.

## WE ADVISE

As an industry leading, global provider of protective clothing and equipment, we advise you on the best solution to suit your needs.

WE DESIGN

If our range doesn't include the right product for a particular task, our specialist designers will create it bespoke. We can also brand any product according to your requirement.

products ourselves, giving us total

control over the whole process.

WE MANUFACTURE We have the experience and the expertise to manufacture bespoke



Eagle are ISO 9001 certified for Design and Manufacture of Flame Retardant PPE



# **GREATER THAN 20% 2ND & 3RD DEGREE BURNS CAN BE FATAL**

Are you confident your PPE manufacturer meets ALL the required standards right now? Because it's YOUR responsibility to make sure they do.

When lives are at stake you NEED to be sure that the partners you deal with are trusted and the products you specify are of the highest quality and meet the highest standards. At Eagle we take our responsibilities extremely seriously, towards our products, our staff, the environment and, of course, you.

We go to great lengths to ensure we meet those responsibilities – and we have independent evidence to show that we DO what we SAY – so you don't have to take our word for it.

## Introducing eagle acc Arc Defender Coverall, ETF1312YN. 245 gram achieving 14.5 cal/cm<sup>2</sup> 21%+ higher ARC rating Significantly better burn prediction

These coveralls were independently manikin tested at BTTG. Only 1 remained intact.



**SAMPLE P MODACRYLIC** 280 gram 2nd° & 3rd° Burn 40% ARC Rating: 12 cals/cm<sup>2</sup> **SAMPLE T MODACRYLIC** 280 gram 2nd° & 3rd° Burn 36% ARC Rating: 12 cals/cm² eagle coverall ARC DEFENDER COVERALL 245 gram 2nd° & 3rd° Burn 14% ARC Rating: 14.5 cals/cm²

## DEFENDER BEST IN CLASS LIVES ARE AT STAKE. BE SURE.

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# eagle

## **ARC+** Coveralls



## ETF 1312 YN - NOMEX DEFENDER

Eagle ARC Antistatic Flame Retardant High Visibility Coverall

Extremely durable ARC coverall designed for Utilities, Oil, Gas, Petrochemical, Industrial markets. Extremely lightweight fabric provides good wearer comfort. Using heat applied segmented tape to reduce weight and increase flexibility.

Chest: S - 3 XL Length: Reg - Tall



A1 B1 C1



EN 1149-3:2004 EN I EN 1149-5:2008 +A:

EN ISO 20471:2013 IEC 61482-2:2 +A1:2016 (Class 3) EN 61482-1-2: (Class 1 = 4K

EX 61482-2:2009 EX 61482-1-2:2007 (Class 1 = 4KA) EX 61482-1-1:2009 (14.5 Cal/cm<sup>2</sup>) eagleard

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### **ETF 1313 ONA**

Highly Durable, Antistatic FR Coverall Designed for Utility, Oil, Gas, Petrochemical & Industrial Markets.

Designed to enhance movement in tough conditions. This Eagle ARC coverall eliminates the need for a high visibility vest. European made product, ensures excellent quality. Fabric blended Aramid for superior performance.

Chest: S - 3 XL Length: Reg - Tall

IEC 61482-1-1:2009 (9.1 Cal/cm<sup>2</sup>)





ISO 11612:2015 EN 1149-3:2004 IEC 61482-2:2009 A1 B1 C1 F1 EN 1149-5:2008 EN 614832-1-2:2007 (Class 1=4kA)

EN ISO 11611:2015 RIS-3279-TOM Class 1 A1

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### **ETF 1323 NC** Nomex<sup>®</sup> Comfort ARC Coverall

Highly designed utility/petrochemical coverall. Uses flame retardant reflective tape and brass zippers for additional durability. Action back design for additional comfort. Choice of fabric weights 155 g/m<sup>2</sup>, 220 g/m<sup>2</sup>, 260 g/m<sup>2</sup>.

36" - 50" Length: Short - Tall Chest:





ETF 1350-2 Nomex<sup>®</sup> Comfort ARC Coverall

Using premium Nomex<sup>®</sup> Comfort fabric with flame retardant reflective tape, ideal for all industrial, utility and petrochemical use. Fabric weight options: ETF 1350-1: 155 g/m<sup>2</sup>, ETF 1350-2: 200 g/m<sup>2</sup>, ETF 1350-3: 260 g/m<sup>2</sup>

Chest: S - 2 XL Length: Reg - Tall

#### Colours: F EN ISO 11611:2015 EN ISO 11612:2015 EN 1149-3:2004 EN 13034:2005/ IEC 61482-2:2009 Class 1 A1 A1 B1 C1 F1 EN 1149-5:2008 A1:2009 EN 61482-1-2:2014 260gsm version only (Class 1 = 4kA) EN 61482-1-1:2009

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## **ETF 1313 YNA**

High Visibility Antistatic ARC Coverall

A highly advanced and durable garment providing inherent FR AS and ARC flash protection. Manufactured with 280g/m<sup>2</sup> ripstop modacrylic antistatic cotton, the coverall achieves an ATPV rating of 12.9cal/cm<sup>2</sup> - by far the highest rating from a single layer 280g/ m<sup>2</sup> modacrylic cotton coverall on the market.



EN 61482-1-1:2009

(12.9 Cal/cm<sup>2</sup>)

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## **ETF 1312 NCNE** Nomex<sup>®</sup> Comfort ARC Coverall

Nomex<sup>®</sup> Comfort 220 g/m<sup>2</sup> rip-stop with concealed zipper front pockets and adjustable cuffs.

Lightweight option: ETF 1312 LWT: 185 g/m<sup>2</sup> Nomex<sup>®</sup> Comfort.

S - 2 XL Length: Short - Tall Chest:



**ETF 1304 HVY** 

A1 B1 C1

EN 1149-5:2008

High Visibility Antistatic ARC Coverall

High visibility flame retardant antistatic ARC coverall with silver flame retardant reflective tape, eliminating the need for a safety vest. Highly breathable and durable inherently flame retardant fabric. Ideal for utility and industrial use.

S - 3 XL Length: Reg - Tall Size:





EN ISO 20471:2013 EN ISO 11611:2015 Class 1 A1 +A1:2016 (Class 3)

IEC 61482-2:2009 EN 61482-1-2:2007 (Class 1 = 4KA) EN 61482-1-1:2009 (12.9 Cal/cm<sup>2</sup>)

**ETF 1309 ON** High Visibility ARC Aramid Coverall

Eliminating the need for a safety vest due to the high visibility orange fabric. Numerous pockets and also with knee pad pockets. Highly designed coverall for multi tasks. Choice of colour options and fabrics.







### ETF 1308 SP Eagle Nordic ARC Coverall

An inherent coverall designed for electrical utility workers requiring arc protection. The technical design has been created to maximise wearer comfort and protection. All components are flame retardant.





## **ETF 1351 RIS** Highly Durable, Antistatic FR

Coverall Designed for Utility, Oil, Gas, Petrochemical & Industrial Markets. Modified to provide increased protection to the wearer, and provide enhanced movement and flexibility in tough conditions. Manufactured within Europe to ensure excellent quality and fit, ideal for rail sector workers working in LV and HV environments.

Short - Tall Chest: S - 2 XL Length:

A1 B1 C1 F1

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## ETF1302-03-RIS

Highly Durable, Antistatic FR Coverall Designed for Utility, Oil, Gas, Petrochemical & Industrial Markets.

Designed to enhance movement in tough conditions. This Eagle ARC coverall eliminates the need for a high visibility vest. European made product, ensures excellent quality. Fabric blended Aramid for superior performance.

S - 2 XL Length: Chest: Reg - Tall



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## Waterproofs



## ETF 1901 YNA

FR Lined Apollo Jacket

FR antistatic waterproof protection to class 3 Hi-Visibility. The heat applied chevron FR reflective tape provides the wearer with greater movement and comfort. Knitted FR Antistatic storm cuffs to protect against the elements. Detachable Hood. Compatible with ETF1902YA Apollo Salopettes.

Size: S - 3 XL





## ETF 1902 YA

FR & Antistatic Hi-Vis Salopettes with Segmented Reflective tape.

Flame retardant waterproof breathable high visibility trouser. Manufactured from FR breathable PU coated polyester, Salopettes design for added comfort. Optional lined version to increase heat protection.

Size: S - 3 XL





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## **ETF 1903 YNA**

S - 3 XL

Size:

Helios ARC Jacket - Ultimate Waterproof ARC Protection to Class 3 Hi-Vis & Class 3 Breathability.

Developed using extensive customer feedback, the new Helios ARC jacket provides high level of protection from an ARC flash incident. Using the latest fabrics, seam and reflective tape technology, this is a lightweight solution.

## **ETF 1904 YNA**

S - 3 XL

Size:

Helios ARC Salopettes - Ultimate Waterproof ARC Protection to Class 3 Hi-Vis & Class 3 Breathability Using innovative fabrics, the Helios ARC waterproof sallopettes provide high performance and greater comfort. Compatible with ETF1903YNA jacket.



## ETF 1903 OR

S - 3XL

Size:

Helios ARC Jacket - RIS TOM Rail SPEC Ultimate Waterproof ARC Welding Protection to Class 3 Hi-Vis/RIS-3279-TOM & Class 3 breathability. Tested to Class 2 for welding protection. The Orange Helios is designed for the rail and industrial market. Compatible with ETF1904OR Helios ARC Salopettes.



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**Industrial Clothing** 



ETF 1220 B0 High Visibility ARC Softshell

Extremely comfortable design using inherently flame retardant antistatic fabric incorporating a detachable hood system. Zipped pockets, modern design.



IEC 61482-2-2009 EN 61482-1-2:2007 (Class 1 = 4KA)

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**ETF 1105 ANKP** Nomex<sup>®</sup> Comfort ARC Trouser

Nomex<sup>®</sup> Comfort 220 g/m<sup>2</sup> rip-stop reinforced knee trouser. Shirt gripper, side and rear pockets, belt loops. Range of fabrics including Kermel<sup>®</sup> and Permaguard.



**ETF 1101 CAN** Antistatic ARC Cargo Trouser

Highly comfortable flame retardant Modacrylic fabric, knee pad pockets, belt loops and cargo pockets for additional functionality.

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Also available in Nomex® Comfort fabric.

Waist: 36" - 56" Length: Reg - Tall







ETF 1101 K Antistatic ARC Cargo Trouser

Eagle ARC Antistatic inherently flame retardant trouser. Designed for Utilities, Oil, Gas. Cargo pocket design with optional reflective. Comfort waist.

30" - 42" Length: Reg - Tall Waist: Colours: EN ISO 11612:2015 EN 1149-3:2004 IEC 61482-2:2009 EN ISO 11611:2015 Class 1 A1 A1 B1 C1 EN 1149-5:2008 EN 61482-1-2:2007 (Class 1 = 4KA)

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## ETF 1101 YA

FR & ARC Resistant Hi Vis Cargo Trousers.

Premium cargo trouser featuring high quality fabric to ensure minimal shrinkage and ultimate strength. All major seams are twinneedled for durability and all stress points are bar-tacked for strength.



EN 61482-1-1:2009 10.8 Cal/cm<sup>2</sup> Copyright © 2019 DuPont. All rights reserved. The DuPont Oval Logo, DuPont™, NEVER QUIT™ and Nomex® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates.

EN 61482-1-1:2009

(14.5 Cal/cm<sup>2</sup>)

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## Kintted FR Antistatic ARC Range





## ETF 330 HVA

Antistatic High Visibility ARC Polo

Inherent flame retardant Eagle Permaguard fabric. Long sleeved with three button concealed placket. Increased comfort fabric with knitted cuffs with elastane for improved fit. Special sizes made to order.

Size: S - 3 XL



### ETF 330 AN

Flame Retardant Antistatic ARC Polo

Inherently flame retardant Eagle Permaguard fabric. Long sleeved with three button concealed placket. Increased comfort fabric with knitted cuffs with elastane for improved fit. Corporate collar. Special sizes can be made to order.

Size: S - 3 XL









## ETF 332 OA

FR ARC Anti-Static RIS3279TOM Hi Vis Polo short Premium ARC, hi-vis orange inherently fire retardant long sleeved polo shirt. Comfortable, breathable, soft touch, pique weave fabric. Navy contrast knitted cuffs and collar with elastine for an improved fit. Heat applied reflective tape to improve wearer flexibility.

Size: S - 3 XL



### **ETF 101 NA**

FR Antistatic ARC Sweatshirt

Eagle Permaguard inherently flame retardant antistatic long sleeved sweatshirt.

### EN20471 option available in yellow.

Size: S - 3 XL



Size: S - 3 XL Trouser: Reg - Tall Colours: Finite regardless for the second seco

Eagle Permaguard 1:1 rib with elastane for

**ETF510NA & ETF810NA** 

FR ARC Anti-Static L/S Top

& Legging Base Layers

additional comfort.

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### **ETF 9 WMPN**

Eagle Balaclava

Extremely comfortable balaclava produced in our trademark design. Range of fabrics including Eagle Permaguard, Kermel®/Lenzing, CarbonX® and Nomex®.



### ETF 9 NKV

Kermel<sup>®</sup>/Lenzing Balaclava

Extremely comfortable Aramid fabric. Great stretch properties. Range of fabric choices also available.

## Size: One Size



## ETF 313 HM-2

3 Layer Extreme Weather FR Balaclava

Innovative design to ensure maximum comfort with an elasticated face opening ensuring adequate protection for the wearer's neck. Sits comfortably under shoulder braces and works alongside other PPE. Single layer Kermel®/ Lenzing / double layer Modacrylic balaclava.

Size: One Size











### **ETF 9 WNNH**

Extremely Comfortable ARC Balaclava Produced in our Trademarked Design Multi-purpose flame retardant balaclava with shoulder protection. Can be worn over the head or around the neck, single layer, 1:1 rib fabric for additional comfort and stretch.

### **ETF NMHP**

ARC Flame Retardant Anti-Static Snood

Flame retardant, antistatic, ARC protection and heat resistant snood, providing protection against brief contact with flame and a combination of convective and radiant heat.

#### Size: One Size



Size: One Size



### ETF 300 NMHP

ARC Flame Retardant Anti-Static Beanie

Flame retardant, antistatic, ARC protection and heat resistant beanie, providing protection against brief contact with flame and a combination of convective and radiant heat. Features darted crown and double layered highly breathable material.

Size: One Size



# WE DISTRIBUTE WORLDWIDE

Eagle Technical Products was formed in 2002 to meet the needs of a wide cross section of emergency service workers who require the highest level of service and protection available from their protective clothing. The Directors of Eagle have been involved in the PPE sector for over 20 years, giving our customers confidence in our ability and experience within this sector.



# **MEMBERSHIPS &** CERTIFICATIONS





## **BTTG<sup>™</sup> MEMBER**

Number: 0112

To ensure we are at the forefront of industry developments and conform to any and all revisions in standards and requirements we maintain our membership of BTTG™, the leading independent organisation for the testing and certification of PPE.



When you choose Eagle Technical Products to manufacture and supply your PPE, you're choosing quality. Our ISO9001 certification underlines our commitment to improving guality across the business.



## ISO 14001

**Environmental Management** Systems

We are wholly committed to protecting the environment is second to none. We have rigorous practices in place to ensure Eagle continuously improve resource efficiency, reduce waste and our impact on the environment and provide training to all our staff.

Eagle has been accredited for the latest ISO 14001 standards, recognising our ability to manage environmental responsibilities.



## ISO 45001

Occupational Health & Safety

We value our staff above all else and are committed to their wellbeing. That's why we have implemented a range of processes to identify, control and remove hazards and risks in our facilities, providing a safe working environment for all our employees.

This is reflected in our ISO45001 certification and underlines our commitment to being the best in every area of our business



Every year our production facilities are independently audited to ensure we have our Module D certification (formerly Article 11). Eagle consistently meets the standards set to achieve this.

You can't produce Level 3 (Mortal Risk) PPE unless you have Module D certification. Ask for evidence of your manufacturers Module D - it's not an option!



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