



**ProGARM**<sup>®</sup>  
PROTECTING LIVES

# ARC FLASH & FLAME RESISTANT GARMENTS

23/24

**TRUST THE ARC FLASH SPECIALISTS**

**WWW.PROGARM.COM**

# 7 REASONS TO CHOOSE PROGARM® TODAY

01

## WE'RE THE ARC FLASH SPECIALISTS

We are 100% focussed on arc flash and flame resistant clothing. When the lives of your team are at risk, isn't it better to trust a specialist?

02

## INHERENT PROTECTION

Our unique VXS+ fabric is 100% inherent. This means the very fibres provide flame resistant protection for the life of the garment.

03

## DURABILITY MATTERS

We're so confident that our arc flash garments last up to 70% longer than other leading brands that we provide a Lifetime Seam Guarantee.

04

## QUALITY ASSURANCE

We hold ISO9001 for Quality Management and Module D accreditation for our supply chain, demonstrating our absolute commitment to production quality at every stage.

05

## SAFETY ON THE BUTTON

Our anti-static ThermSAFE™ components (such as buttons and zips) are made from military-grade polymers, tested to keep working even after an arc flash incident.

06

## PRACTICALLY PERFECT

Soft fabrics and handy pockets are for more than just style; your team are far more likely to wear the right PPE if they're comfortable and the garments are practical while working.

07

## WE KEEP INNOVATING

As the industry leaders in innovation, we're always working to make good things better and are constantly working on the next generation of arc flash protection. Constant innovation keeps us well ahead of the pack.



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# ARC FLASH PROTECTION: THE NEXT CHAPTER

We're pioneers and we're trailblazers.

I know we are leading the industry with our exciting new ranges and safety innovations.

## BLAZING A TRAIL

Specialising in arc flash protection drives us to innovate faster than any generalist PPE supplier and focus 100% on bringing you the best in arc flash protection.

## YOUR TEAM DEPEND ON US

To protect them when they need us. That's why we never compromise on safety. On innovation. On comfort, quality or durability. Our garments provide the best possible protection; everyday practicality and comfort.

## BUSINESSES DEPEND ON US

We're trusted by some of the UK's largest brands to keep their teams safe.

## HOW CAN YOU TELL IF YOU'VE GOT THE BEST?

We take such pride in our work that we're massively proud to put our name on it. If you want the best, it will say ProGARM® on the label.

## TALK TO ME

We maintain our industry leading position throughout Europe because we are always listening. If there's something – anything - you want to say, please do get in touch.

Stay safe and don't compromise.



**TONY ARNETT**  
Managing Director







# YOU CAN DEMAND THE BEST

The safety of your team is paramount, and we provide the ultimate flame resistant protection against the life-threatening arc flash risks they face every day.

To stay safe, your team need to wear the right protection. That's why we invest heavily in making our clothes comfortable and practical too. That way they will be happy to wear them.

## DEMAND THE BEST IN SAFETY AND PROTECTION

All our protective garments conform to UK and EU PPE regulation and display the correct care labels to guarantee certification and traceability.

Often exceeding industry and EN standards, we're always researching and testing materials and designs to lead the way in arc flash protection.

## DEMAND THE BEST IN QUALITY, DURABILITY AND VALUE

Our high-quality materials and durable designs mean our garments last up to 70% longer than other brands, providing outstanding value for money.

“ We have had these trousers for over 6 months and they are still going strong.

Before, we had to replace trousers nearly every three weeks. ”

## DEMAND THE BEST IN COMFORT AND INNOVATION

To make sure your colleagues wear the PPE you provide – and wear it correctly – our specialist in-house team has researched and designed both male and female ranges with practicality and wearer comfort in mind.

Breathable, soft to the touch and versatile with useful pockets and design features to suit wearer needs. That's why some of the world's largest businesses rely on us to deliver the protection and comfort their team needs, day in and day out.

# ARC FLASH PROTECTION EXPERTISE IN YOUR SECTOR

## It's our business to know your business

ProGARM are one of the largest suppliers of arc flash and flame resistant garments in the UK and, to make sure we're giving you what you need to keep your teams safe, we make it our business to understand yours.

We work with a wide range of sectors, particularly traditional and renewable power generation, civil engineering and utilities, rail and petrochemical. We employ arc flash protection experts who understand your sector and the associated risks.



### UTILITIES

HSG47 highlights the significant risk of a cable-strike during groundworks and the potentially life-changing injuries or fatal consequences of an arc flash incident.



### INDUSTRIAL ELECTRICAL

The EU and HSE are specifying increasing levels of arc flash and flame resistant protective clothing. We can help you make the right choices.



### RAIL

Our comprehensive range of hi-vis orange garments comply with RIS-3279-TOM (replacing UK GO/RT 3279) and are safe, durable and comfortable for groundworks and electrification projects.



### POWER GENERATION

We understand power stations, renewables and transmission environments, and help safeguard your team against both arc flash incidents and the weather as needed.



### WINDPOWER

Not only do we understand the specific risks in this sector, but our garments will provide excellent protection against the elements, keeping your team warm and dry as well as the arc flash protection to keep them safe.



### PETROCHEMICAL

The similarities between arc flash and flash fire incidents mean we've become an established and trusted provider of safety clothing in the petrochemical sector.



# WHAT'S NEW?



## SUSTAINABILITY RANGE

ProGARM® is the first company to launch a sustainable range of arc flash and flame resistant PPE which looks and, crucially, performs, just like our core garments.

The new range features the maximum amount of recycled content possible whilst meeting the stringent safety standards required for arc flash protection.  
Pg 20 & 27 →

**We're continuing to lead the way.**  
With more new innovating products and a culture of consistent improvement, there is plenty for us to shout about that's new in our latest catalogue.



## ADDITIONAL HI-VIS CERTIFICATION FOR THIS JACKET & TROUSERS COMBO

The 5805 AF & FR jacket features extensive hi-vis areas to ensure delivery of Class 2 EN ISO 20471 hi-visibility performance, helping operatives and drivers to be better seen at night. Match these with the Class 1 5815 arc flash trousers (available as 5810 ladies fit) these products are all constructed from super-soft, 300gms, VXS+ Inherent fabric. Pg 34 & 35 →

## ARC FLASH DUNGAREES YOU ASKED, WE LISTENED!

New to the ProGARM® range are the 7522 arc dungarees featuring improved fabric performance from our highest quality ripstop weave fabric. We have also added Cordura® knee reinforcements which are good up to 200,000 abrasion cycles. Plus, they offer superb comfort and durability for the wearer - of course! Pg 38 →



## FR & AF HI-VIS COMBAT TROUSERS - WITH ADDED STORAGE

Improved garment durability ranks high with the 7715 hi-vis combat trousers. From the innovative ripstop fabric, external kneepad pockets to fit 2240 FR kneepads, stitched on 5cm and 7cm FR/AS industrial wash reflective tape, plus added Cordura® knee and hem reinforcement. Add to this, an assortment of open and secured pockets for safe storage of mobile phones and easy access to tools - these really are a winner! Pg 37 →





# PROGARM® QUALITY- THE FACTS

As well as improving safety, our continuous focus on quality means our garments lead the way in comfort, practicality and durability - giving you outstanding value for money by standing up to the rigours of everyday use for longer.



## PRODUCT DEVELOPMENT

We listen to our customers and end users, taking on board feedback and suggestions to develop all our styles, ranges and innovations.



## UNIQUE PROGARM® DESIGNS

Developing our own designs means we can constantly innovate and improve. We can also accommodate any special design requirements that you need.



## ISO9001 AND MODULE D

As well as ISO9001 we are Module D accredited, demonstrating our commitment to high quality standards throughout our supply chain. The result: better materials, efficient manufacturing and an outstanding customer experience.





## LIFETIME SEAM GUARANTEE

All our garments carry a market-leading lifetime guarantee on all structural seams.



## OEKO-TEX® CERTIFIED

OEKO-TEX® is an independent testing system in textiles, enhancing product safety and sustainable production. Wherever possible, we only use products from OEKO-TEX® approved suppliers.



## DURABILITY

50-wash certified, inherent fabrics, tensile strength and abrasion tested, a lifetime seam guarantee... our longer-lasting garments deliver outstanding value for money.



## QUALITY FABRICS

Our VXS+ fabrics and quality assured manufacturing processes are the foundation of the ProGARM® product range. As well as protection, fabric is selected for durability, performance, comfort and how well it will wash.



## QUALITY COMPONENTS

Our anti-static ThermSAFE™ components (such as buttons, press studs and zips) are made from military-grade polymers, tested and safety approved to continue working after an arc flash incident, allowing quick garment removal for First Aid.



## EUROPEAN PRODUCTION

For speed, quality control and traceability, all our garments are made in the EU.



## RIGOROUS PRODUCT TESTING

As well as wearer trials, we also test seams, components and fabrics in specialist lab conditions to understand and maximise performance.

# ABOUT VXS+ FABRICS



## INHERENT VS TREATED FABRICS

VXS+ inherent fabrics provide the ultimate protection. Unlike chemically treated fabrics, the very fibres of inherent fabrics are flame resistant, and because that protection doesn't wash out, the wearer stays safe throughout the life of the garment.

## HIGH-PERFORMING, INNOVATIVE FABRICS FOR ULTIMATE COMFORT AND PROTECTION

For decades, flame resistant garments have meant uncomfortable, heavyweight cotton drill fabrics that would shrink extensively with washing. This all changed with the introduction of our VXS+ inherent fabric.

With our ProGARM® VXS+ fabric, wearers can now benefit from:



### ✓ INSTANT EXTINGUISHING PROPERTIES

The fibre blend of our VXS+ inherent fabrics offers outstanding performance compared to more expensive aramid fabrics.



### ✓ GREAT COMFORT

Using advanced textile technology, all of our products are designed for optimum softness, breathability and comfort.



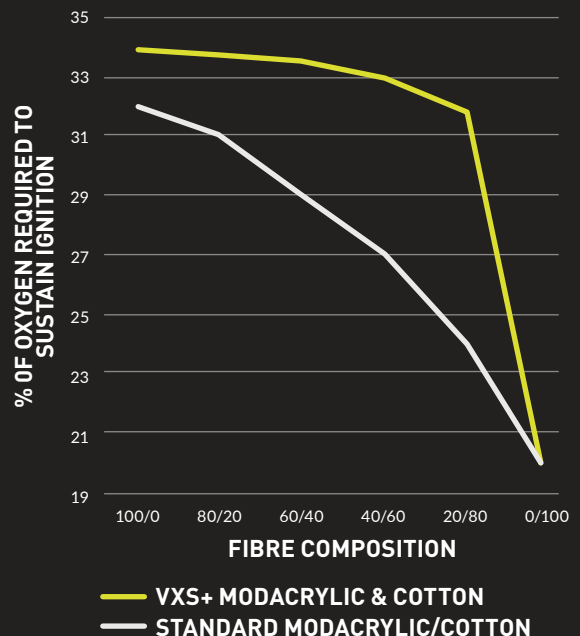
### ✓ HIGHLY DURABLE

After 50 industrial washes, our garments outlive, outshine and outclass the competition in durability, appearance and strength, with excellent colour fastness and less than 3% shrinkage.

## LIMITING OXYGEN INDEX (LOI) TESTING

Limiting Oxygen Index (LOI): is the amount of oxygen required in the atmosphere for a material to ignite. With an oxygen percentage of 21% in the earth's atmosphere, anything that has an LOI of less than 21 will burn quickly and easily. An example of this is cotton, which has an LOI of 17.

VXS+ Modacrylic, with an LOI of 34, is much more flame resistant than other materials including aramid fibres, which have an LOI of 28-29. That's why VXS+ Modacrylic is a top-performing flame resistant solution in the market, especially for severe risks like electric arc.



	VXS+ MODACRYLIC & COTTON	STANDARD MODACRYLIC/COTTON
100/0	33.8	32
80/20	33.6	31
60/40	33.4	29
40/60	33	27
20/80	31.8	24
0/100	20	20

# TOP-CLASS PRODUCTION, TOP-CLASS GARMENTS

**“We’re 100% committed to producing the best arc flash and flame resistant safety wear on the market. We’re 100% committed to innovating and producing garments that work and last as they should. And we’re 100% committed to quality control.”**

## GOING THE EXTRA MILE

ISO9001 accreditation is widely known as the recognition of robust company processes, quality control and customer service.

Module D accreditation goes further, and recognises our commitment to quality control throughout our manufacturing supply chain processes such as fibre manufacture, yarn development and dyeing.

Every partner is regularly audited by an independent accredited body, and every batch of fabric is certified and documented as meeting our exacting standards, with batch numbers being included on garment labels for complete traceability.

## RIGOROUS TESTING FOR YOUR REASSURANCE

As part of our rigorous quality control, we test EVERY garment design for protection against arc flash. We repeat testing as often as prescribed under the EN Standard but, in practice, we’re innovating so regularly that we’re usually testing upgraded garments before previously released versions are due to be re-tested.

Even individual components such as zips, buttons and press studs are regularly tested and certified to make sure they’re safe, and will keep working after an incident to allow First Aiders to remove garments easily.

We also test all of our garments for their structural integrity in the seams, testing against flame spread, their strength to withstand an arc flash and also their durability to stand up to the rigours of day-to-day wear. That’s why we confidently offer our Lifetime Seam Guarantee.



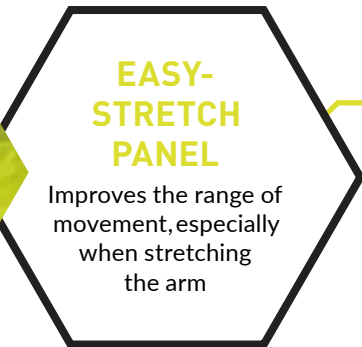
**LIFETIME SEAM  
GUARANTEE**





# GREAT GARMENTS MAKE PROGARM® THE RIGHT CHOICE

All of our garments have innovative features, created with the end-user in mind, and benefit from our unique 100% inherent VXS+ fabrics and ThermSAFE™ components. Here are some of the ways our garments set the standard.







**TRIPLE  
STITCHED  
SEAMS**

Increases the durability and life of the garment

**DOUBLE  
STITCHED  
REFLECTIVE  
TAPE**

Ensures reflective tapes stay intact to increase the life of the garment

**GAS  
MONITOR/  
RADIO LOOP**

A secure location point for a gas monitor, radio or other portable item

**INTERNAL  
KNEEPAD  
POCKETS**

Allows kneepads to be added for wearer comfort and protection

# EN STANDARDS AT A GLANCE

You can find more detailed information regarding the above EN standards at the back of the brochure.

For more information on the updated PPE Directive, take a look at our summary on page 102.



## RIS-3279

Rail industry standard - high visibility clothing

Page: 115



## EN 1149-5

Protective clothing - electrostatic properties

Page: 115



## EN 61482-2

Protective clothing against the thermal hazards of electric arc

Page: 116



## EN ISO 11611

Protective clothing for use in welding and allied processes

Page: 117



## EN ISO 20471

High visibility clothing - testing methods and requirements

Page: 118



## EN ISO 14116

Protection against heat & flame - limited flame spread

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## EN ISO 11612

Clothing to protect against heat and flame

Page: 119



## EN 13034

Protective clothing against liquid chemicals

Page: 120



## EN 342

Protective clothing - protection against cold

Page: 120



## EN 14404

Personal protective equipment, knee protectors for work in the kneeling position

Page: 121



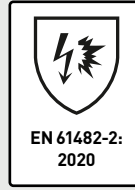
## EN 343

Protective clothing - protection against rain

Page: 121

# ARC FLASH PROTECTION

## IEC 61482 EXPLAINED



## EN 61482-2:2020

### LIVE WORKING – PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF AN ELECTRIC ARC

This standard is significantly different to FR standard EN ISO 11612. It includes more rigorous and different requirements, and is the standard for garments to protect those at risk of arc flash. The latest update to the standard was in 2018 and contained a couple of important changes to the test methods with regards to the performance ratings of garments.

## SCOPE (EXTRACT FROM THE INTERNATIONAL STANDARD)

This part of IEC 61482 is applicable to protective clothing used in work where there is the risk of exposure to an electric arc hazard.

This standard specifies requirements and test methods applicable to materials and garments for protective clothing for electrical workers against the thermal hazards of an electric arc based on:

- Relevant general properties of the textiles, tested with selected textile test methods
- Arc thermal resistance properties

## TEST METHODS

There are two test methods commonly referred to under the IEC 61482-2: 2018 European Standards:

ProGARM garments are tested using both methods.

### OPEN ARC TEST METHOD: IEC 61482-1-1

This test method gives a Calorific Value (cal/cm<sup>2</sup>) for each garment - expressed as an arc thermal protection value (ATPV), breakopen threshold energy value (EBT) or the incident energy limit (ELIM) and in this way, layered garment systems can be built up with testing results that correspond directly to your arc flash Risk Assessments.

### BOX TEST METHOD: IEC 61482-1-2

This test method gives results of either 4kA (APC 1) or 7kA (APC 2) with APC 2 being a higher level of protection and is established in the European market. Garments in the ProGARM® collection do get APC/Class ratings, but the results cannot be directly related to arc flash Risk Assessments in the same way that calorific values can be in the Open Arc Test Method.

## CALORIFIC VALUES EXPLAINED

There are now 3 different calorific values given to a garment when it undergoes Open Arc Test Method: IEC 61482-1-1: 2019

### ATPV

The maximum thermal energy the garment can withstand before the wearer would have a **50% probability of 2nd degree burns.**

### EBT50

The value of incident energy at which **breakopen occurs with 50% probability.**

### ELIM

Elim value is the numerical value of the incident energy attributed to a product below which value all product responses are below the Stoll curve and without breakopen

FOR MORE INFORMATION ON ARC FLASH TEST METHODS CALL US ON 01482 679600

# PROTECTION IN LAYERS

## LAYERED PROTECTION WITH PROGARM®

When arc flash and flame resistant garments are worn in layers, they provide the best “last line of defence against an arc flash incident.”

Arc flash garments should not just be an outer protective layer, as wearing the wrong fabrics even under protective garments can result in injury in the event of an arc flash incident. That’s why ProGARM® has developed a total range of garments to protect you and your team that are soft, breathable and comfortable.

By layering garments, you can achieve enhanced protection values, higher than merely the sum of the protection values of the garments. This is because air is a poor conductor of heat. It acts as an insulator and so increases the total calorific value of the garment system.

## ARC RATED CATEGORIES

An arc rated category number is a method to determine the required arc rating of a garment worn for a given work task. Some work tasks will demand wearing protective garments in multiple layers to reach the required level of arc protection, and this information should be provided by an employer as a result of an arc flash assessment.

The NFPA identified four arc risk category levels, which are numbered by severity from 1 to 4 (1 being the lowest). The arc category is the level of arc flash protective clothing you must wear to protect against a minimum level of incident energy measured in calories/cm<sup>2</sup>.

This means that electrical equipment, depending upon the energy delivering capability, under fault conditions can cause an explosion, or arc fault of a certain level, again measured in calories/cm<sup>2</sup>. The resulting explosion is able to deliver an amount of heat to a certain distance.

Please note that references within this catalogue to ARC 1 to 4 relate to ELIM ratings. ATPV / EBT ratings are stated where an ELIM rating is not available.





# THE UK'S FIRST ARC FLASH SURVEY

Together with the British Safety Industry Federation (BSIF), ProGARM® commissioned a study into electrical safety across the UK in a bid to shine a spotlight on the potentially life-changing and fatal risks of arc flash.

Alarming, it reveals a lack of awareness at every level of current safety standards governing arc flash and an apparent failure from employers to properly educate staff about this high-risk threat.

We commissioned the survey to help us better support our customers and their industries in adopting health and safety best practice, and sought the views from 200 UK industry professionals across the rail, power generation, industrial electrical, utilities and petrochemical sectors.

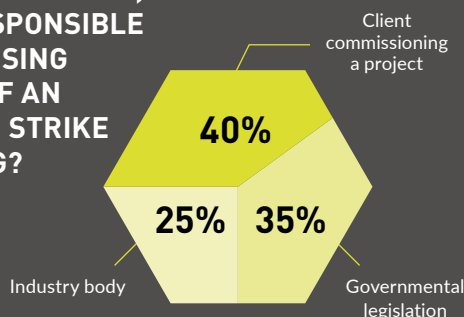
It is thought to be the first national research exercise of its type ever conducted into arc flash, and gathered feedback from site-based employees as well as senior management teams/employers.

## 57%



**ADMITTED THAT THEY (OR SOMEONE THEY WORK WITH) HAVE SUFFERED AN ARC FLASH STRIKE**

**IN AN ORGANISATION, WHO IS RESPONSIBLE FOR MINIMISING THE RISK OF AN ARK FLASH STRIKE OCCURRING?**



## 80%

**BELIEVE EXISTING GOVERNMENT LEGISLATION IS TOO AMBIGUOUS**

## 50%

**CONSIDER IT TO BE THE EMPLOYEE'S RESPONSIBILITY TO SELF-EDUCATE ON ARC FLASH**

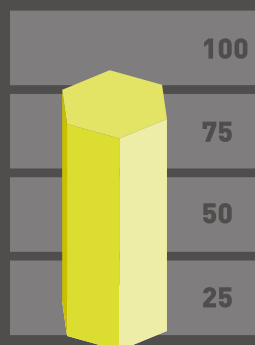


## 84%

**CLAIMED THEY UNDERSTAND THE RISKS ASSOCIATED WITH ARC FLASH**

## 90%

believe that there is a pressing need for the Government to develop more specific guidelines and legislation surrounding arc flash



## 78%

**OF RESPONDENTS DID NOT KNOW THE CORRECT GOVERNMENT SAFETY GUIDANCE HSG47 - FOR AVOIDING UNDERGROUND SERVICES WHEN BREAKING GROUND**

# WORLD-FIRST SUSTAINABLE ARC FLASH PROTECTION

ProGARM is proud to launch a sustainable range of arc flash and flame resistant PPE which looks and crucially, performs just like our core garments. The new range features the maximum amount of recycled content possible whilst meeting the stringent safety standards required for arc flash protection.

Like all ProGARM arc flash protection, the new sustainable range lasts up to 70% longer than some competitors. This means it's not just for good the environment, preventing more textile waste ending up in landfill, reducing carbon emissions and saving resources used in production, it's good for budgets too.

- ✓ Female and male ranges
- ✓ Coveralls, jackets and trousers
- ✓ Available in high-vis yellow, navy blue, and a combination of navy and high-vis yellow
- ✓ Certified for standards covering arc flash (APC1, ELIM 8cal), flame resistance (EN11612, A1 + A2), welding (EN11611), anti-static (EN1149-5), and high visibility
- ✓ Arc flash protection is inherent, meaning it can't be washed out
- ✓ Up to 70% longer lasting





# RECYCLE

We are able to RECYCLE  
**UP TO 100%**  
of our products ensuring our customers  
have access to a zero landfill option for  
end-of-life ProGARM PPE

## Sustainable features:

- 20% recycled fabric content - using off-cuts from ProGARM's own unworn inherent fabrics and putting them back into the production process removes question marks over quality and means your team gets the same life-saving protection levels.
- Sustainable, carbon neutral packaging.

## More ways we're improving durability and sustainability:

- Our ProGARM Repair service stops otherwise usable arc flash PPE being thrown away. The service includes repairs to main garment closure systems, cuffs and hems, and pocket closures.
- PPE can be tricky to dispose of, so ProGARM Recycle is our initiative to ensure, together with our customers, that we can make progress towards sending zero textiles waste to landfill.
- Delivered to you quicker and greener - ProGARM sustainable range products travel up to 60% less than other suppliers. Deliveries are carefully planned to minimise mileage whilst offering customers the same next day delivery service.

Reduce your environmental impact whilst protecting lives with ProGARM's world-first sustainable arc flash PPE range. Made with recycled fabrics from the production process of our own core range, this guarantees the inherent protection. Tested to the same high standards as all our garments, our range contains the maximum amount of recycled fibres possible to pass stringent safety tests.

# REDUCE

Our dedicated European supply-chain can REDUCE carbon miles travelled by

**UP TO 60%**



# REUSE

**OVER 5 TONS**

of our off-cuts are recycled to help make new products






**VXS+**  
INHERENT™

**100%**  
**INHERENT**


# SUSTAINABLE COLLECTION

For full Product Matrix outlining EN Standards, see page 122

## ✓ INHERENT PROTECTION

Flame resistant properties last the lifetime of the fabric and do not wash out

## ✓ GREAT COMFORT

Male and female ranges with practicality and wearer comfort in mind

## ✓ REDUCED ENVIRONMENTAL IMPACT

Made with unworn recycled ProGARM fabrics to guarantee protection

## ✓ HIGHLY DURABLE

Colourfast with less than 3% washing shrinkage\*

\*Only applicable for woven fabrics





**JK128M JACKET**

Page 22



**TR120M TROUSER**

Page 23



LADIES  
AVAILABLE  
TR120F



**CV100M COVERALL**

Page 24



LADIES  
AVAILABLE  
CV100F



**CV155M COVERALL**

Page 25



**TR170M TROUSER**

Page 26



LADIES  
AVAILABLE  
TR170F



**CV170M COVERALL**

Page 27



LADIES  
AVAILABLE  
CV170F



**PRODUCT INFORMATION**

**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
VXS+ 270g/m<sup>2</sup> Inherent Sustainable Woven Fabric

**PRODUCT CARE:**



**JK128M**

# JACKET

**SIZES:** S-4XL

**LIFETIME SEAM GUARANTEE**








**SafetyICON™ EN Standard identification**



- ✓ Mandarin collar // Maximum neck protection
- ✓ One front pocket with zippers // Secure storage
- ✓ Gas monitor loop // Secure fixing point
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets with flaps // Prevents entry of debris
- ✓ ThermSAFE™ plastic FR zipper // CE Certified

- ✓ Extended back // Protection when bending over
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wearer comfort
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure

**EN STANDARDS**

				
EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN 13758-2:2003 +A1:2006
A1, A2, B1, C1, E1, F1	Pl. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM = 8cal/cm <sup>2</sup>	Class 1, A1, A2	UPF 40+

**BOX TEST**



**ARC RATING**



**FABRIC**



# TR120M

## TROUSER

**SIZES:**

30"- 52" Reg leg (32"/81cm)  
 32"- 44" Tall leg (34"/86cm)  
 30"- 42" Short leg (30"/76cm)



Triple needle stitch seams for extra longevity



Extra wide belt loop at rear



Kneepad pockets for extra protection



# TR120F

## LADIES TROUSERS

**SIZES:**

8-16 Reg leg (30"/76cm)



Cut in a specific women's fit

- ✓ Combat pocket with flap // Safe storage space
- ✓ Mobile phone pocket // Keep your phone safe
- ✓ Side access pockets // Traditional style
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Reinforced crotch // Improved longevity
- ✓ ThermSAFE™ jeans button // Jeans style fastening
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Standard icon system
- ✓ Rear pockets with flap // Secure storage space

### PRODUCT INFORMATION






**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
 VXS+ 270g/m<sup>2</sup> Inherent  
 Sustainable Woven Fabric

**PRODUCT CARE:**



**EN STANDARDS**

 EN ISO 11612: 2015 A1, A2, B1, C1, E1, F1	 EN 1149-5: 2018 Pt. 5:2018 Pt. 3:2004 Charge Decay	 EN 61482-2: 2020 APC 1 ELIM = 8ca/cm <sup>2</sup>	 EN ISO 11611: 2015 Class 1, A1, A2	 EN 13758-2:2003 +A1:2006 UPF 40+
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**BOX TEST**



**ARC RATING**



**FABRIC**



# CV100M

## COVERALL

**SIZES:**

S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)  
Short leg by re-hemming

Internal elasticated waistband for improved fit

Double stitched 5cm FR IW reflective tape

Velcro® secured cuff tabs



# CV100F

## LADIES COVERALL

**SIZES:**  
8-16 Reg leg (29"/75cm)

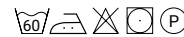


Cut in a specific women's fit

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Chest pockets with zippers // Secure storage
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ Easy-Stretch™ side panels // Maximum wear comfort
- ✓ Action back for improved comfort
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Side access pockets // With access inside the coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance

### PRODUCT INFORMATION

**COLOUR:** Navy  
**FABRIC SPECIFICATION:**  
VXS+ 270g/m<sup>2</sup> Inherent Sustainable Woven Fabric  
**PRODUCT CARE:**



### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN 13758-2:2003 +A1:2006
A1, A2, B1, C1, E1, F1	Pl. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM = 8cal/cm <sup>2</sup>	Class 1, A1, A2	UPF 40+

### BOX TEST



### ARC RATING



### FABRIC







Vertical chest pockets for use with harnesses

Internal elasticated waistband for improved fit

Combat pocket on leg



**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow

**FABRIC SPECIFICATION:**  
VXS+ 270g/m<sup>2</sup> Inherent Sustainable Woven Fabric

**PRODUCT CARE:**



**CV155M**

# COVERALL

**SIZES:** S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Expandable ankle opening with zippers // Easy removal
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified

- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wearer comfort
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ 5cm heat applied reflective tape // Lighter weight
- ✓ Combat pocket on leg plus sleeve pocket // Ample space

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN 13758-2:2003 +A1:2006	EN ISO 20471: 2013 +A1:2016
A1, A2, B1, C1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM = 8cal/cm <sup>2</sup>	Class 1, A1, A2	UPF 40+	Class 3

**BOX TEST**



**ARC RATING**



# TR170M

## TROUSER

**SIZES:** 30"- 52" Reg leg (31"/80cm)  
32"- 44" Tall leg (33"/85cm)  
30"- 42" Short leg (30"/76cm)



# TR170F

## LADIES TROUSER

**SIZES:**  
8-16 Reg leg (30"/76cm)



- ✓ Combat pocket with flap // Safe storage space
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Mobile phone pocket // Keeps your phone safe
- ✓ Side access pockets with flaps // Protects from debris entry
- ✓ Reinforced crotch // Improved longevity
- ✓ ThermSAFE™ jeans button // Jeans style fastening
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Standards icon system
- ✓ Rear pockets with flap // Secure storage space
- ✓ Triple stitched side seams // Lifetime quality assurance

### PRODUCT INFORMATION

**COLOUR:** HV Yellow  
**FABRIC SPECIFICATION:**  
VXS+ 270g/m<sup>2</sup> Inherent Sustainable Woven Fabric  
**PRODUCT CARE:**

### EN STANDARDS

A1, A2, B1, C1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM = 8cal/cm <sup>2</sup>	Class 1, A1, A2	UPF 40+	Class 3

### BOX TEST



### ARC RATING



### FABRIC



\*TR170M meets class 2 and TR170F meets class 1

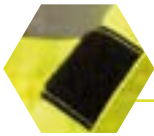
# CV170M

## COVERALL

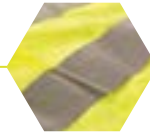
**SIZES:**

S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

Featuring flame resistant ThermSAFE™ hook and loop



Side access pockets



Double stitched 5cm FR AS reflective tape

# CV170F

## LADIES COVERALL

**SIZES:**

8-16 Reg leg (29"/175cm)



Cut in a specific women's fit

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Chest pockets with flaps // Secure storage
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Standards icon system
- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure

### PRODUCT INFORMATION

**COLOUR:** HV Yellow

**FABRIC SPECIFICATION:**  
VXS+ 270g/m<sup>2</sup> Inherent Sustainable Woven Fabric

**PRODUCT CARE:**



**EN STANDARDS**

A1, A2, B1, C1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM = 8cal/cm <sup>2</sup>	Class 1, A1, A2	UPF 40+	Class 3

**BOX TEST**



**ARC RATING**



**FABRIC**





SUSTAINABLE  
COLLECTION

SINGLE COLOUR  
COLLECTION

TWO TONE COLOUR  
COLLECTION

HIVIS YELLOW  
COLLECTION

HIVIS ORANGE  
COLLECTION

BASELAYERS  
COLLECTION

HEAD PROTECTION  
PRODUCTS

OTHER  
ACCESSORIES

**VXS+**  
INHERENT™



**100%  
INHERENT**



# SINGLE COLOUR COLLECTION

For full Product Matrix outlining EN Standards, see page 122

✓ **INHERENT PROTECTION**

Flame resistant properties last the lifetime of the fabric and do not wash out

✓ **INSTANT EXTINGUISHING PROPERTY**

Ultimate protection against flame and arc flash hazards

✓ **GREAT COMFORT**

Breathable, soft to wear and fantastic to the touch

✓ **HIGHLY DURABLE**

Colourfast with less than 3% washing shrinkage\*

\*Only applicable for woven fabrics





IMPROVED

LADIES AVAILABLE  
5202

## 5200 POLO SHIRT

Page 30



LADIES AVAILABLE  
5282

## 5280 POLO SHIRT

Page 31



## 5630 SWEATSHIRT

Page 32



NEW

## 5530 HOODIE

Page 33



## 5430 T-SHIRT

Page 34



IMPROVED

## 9931 SOFTSHELL JACKET

Page 35



## 5850 JACKET

Page 36



## 5790 LINED FLEECE

Page 36



LADIES  
AVAILABLE  
7636

## 7638 TROUSER

Page 37



## 7720 COMBAT TROUSER

Page 38



AVAILABLE IN  
ORANGE

## 6100 COVERALL

Page 39



LADIES  
AVAILABLE  
6101

5200

# POLO SHIRT

SIZES: S-4XL

IMPROVED

Colour matched to other navy ProGARM® garments

Enclosed stud placket allows quick fastening

Rib knit cuffs



Natural feel, comfortable and soft

5202

# LADIES POLO SHIRT

SIZES: 8-16



Cut in a specific women's fit

- ✓ Enclosed stud placket // Allows quick fastening
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable // Good moisture management
- ✓ ThermSAFE™ plastic FR poppers // CE Certified
- ✓ Knitted collar with tipping // Ensures best appearance after washing
- ✓ Rib knit cuffs // Close fit
- ✓ Colour matched to other navy ProGARM® garments // Best appearance
- ✓ SafetyICON™ on arm // Visual EN Standard icon system

## PRODUCT INFORMATION

**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
ProGARM® VXS+ Inherent  
Interlock Fabric, Navy - 260gms

**LOI:** 31.2%

**PRODUCT CARE:**



## EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN 13758-2:2003 +A1:2006
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM=11 cal/cm² ATPV=14 cal/cm²	UPF 40+

## BOX TEST



## ARC RATING



## FABRIC



5280

# POLO SHIRT

SIZES: S-4XL



5282

# LADIES POLO SHIRT

SIZES: 8-16



- ✓ Enclosed stud placket // Allows quick fastening
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable // Good moisture management
- ✓ ThermSAFE™ plastic FR poppers // CE Certified
- ✓ Knitted collar with tipping // Ensures best appearance after washing
- ✓ Rib knit cuffs // Close fit
- ✓ SafetyICON™ on arm // Visual EN Standard icon system

## PRODUCT INFORMATION

**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
ProGARM® VXS+ Inherent Pique  
Fabric, Navy - 210gms

**LOI:** 34.3%

**PRODUCT CARE:**



### EN STANDARDS

EN ISO 11612:2015	EN 1149-5:2018	EN 61482-2:2020	EN 13758-2:2003+A1:2006
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM-5.0cal/cm² EBT50-5.6cal/cm²	UPF 40+

### BOX TEST



### ARC RATING



### FABRIC





Round neck collar with stretch rib



Useful arm pocket

SafetyICON™ EN Standard identification



**PRODUCT INFORMATION**

**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
ProGARM® VXS+ Inherent Sweat Fabric, Navy - 320gms

**LOI:** 30.8%

**PRODUCT CARE:**



**5630**

# SWEATSHIRT

**SIZES:** S-4XL

- ✓ Brushed fleece inner // Winter warmth
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable // Good moisture management
- ✓ Round neck collar with stretch rib // Smart appearance
- ✓ 5cm stretch rib hem // Best fit around waist
- ✓ Rib knit cuffs // Close fit
- ✓ Colour matched to other navy ProGARM® garments // Best appearance
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ Arm pocket // Useful pocket for phone or small items

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN 13758-2:2003 +A1:2006
A1, B1, C2, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	APC1 ELM= 12 cal/cm² EBT50= 13 cal/cm²	UPF 40+

**BOX TEST**



**ARC RATING**



**FABRIC**





Drawstring hood with warm neck design



SafetyICON™ EN Standard identification



NEW



Front pockets for small items

LIFETIME SEAM GUARANTEE

NEW

VXS+ INHERENT™

PRODUCT INFORMATION

**COLOUR:** Navy  
**FABRIC SPECIFICATION:** ProGARM® VXS+ Inherent Sweat Fabric, Navy - 320gms  
**LOI:** 30.8%  
**PRODUCT CARE:**

5530

# HOODIE

SIZES: S-4XL

- ✓ Brushed fleece inner // Winter warmth
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable with good moisture management
- ✓ Round neck higher collar // Additional warmth
- ✓ 5cm stretch rib hem // Best fit around waist and cuffs

- ✓ Rib knit cuffs // Close fit
- ✓ Colour matched to other navy ProGARM® garments // Best appearance
- ✓ SafetyICON™ on arm // Visual EN Norm icon system
- ✓ Front pockets // Useful for phone or small items

EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	IEC 61482-2: 2018
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELM=12cal/cm² EBT50=13.2cal/cm²

BOX TEST



ARC RATING



FABRIC



Round neck rib knit collar



5430

# T-SHIRT

SIZES: S-4XL



Colour matched to other navy ProGARM® garments



Open cuffs for a relaxed fit



**PRODUCT INFORMATION**

**COLOUR:** Navy

**FABRIC SPECIFICATION:** ProGARM® VXS+ Inherent Jersey Fabric, Navy - 200gms

**PRODUCT CARE:**

- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable // Good moisture management
- ✓ Generous length // Maximum protection

- ✓ Colour matched to other navy ProGARM® garments // Best appearance
- ✓ SafetyICON™ on arm // Visual EN Standard icon system

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN 13758-2:2003 +A1:2006
A1, B1, C1	Pl. 5:2018 Pl. 3:2004 Charge Decay	APC1 ELIM=4.0cal/cm²	UPF 40+

**BOX TEST**

4KA  
ARC 1

**ARC RATING**

4CAL  
ARC 1

**FABRIC**





Microfleece lining for extra warmth



Radio loop on left breast



**IMPROVED**

Zipped Napoleon pocket with integrated phone pocket



#### PRODUCT INFORMATION

**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
VXS+ Inherent Woven Weave  
Fabric with Waterproof Membrane - 340gms

**PRODUCT CARE:**



**9931**

# SOFTSHELL JACKET

**SIZES:** S-4XL

- ✓ Elasticated inner cuffs // Wind proofing
- ✓ Velcro® fastening tabs on cuffs and back // Improved fit
- ✓ Zipped Napoleon pocket on left breast with incorporated phone pocket // Safe and secure
- ✓ Inner pockets on right breast // Storage space
- ✓ Covered, zipped hand pockets // Keeps out debris and keeps contents secure
- ✓ Mandarin collar // Maximum neck protection
- ✓ Microfleece lining // Warmth and comfort
- ✓ Easy Stretch side panels // Extra comfort
- ✓ Extended back // Protection when bending over
- ✓ SafetyICON™ on arm // Visual EN standard
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ ThermSAFE™ two-way plastic FR zipper // Flexibility

#### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020
A1, B1, C1, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	APC 2 ELIM=23cal/cm² EBT50=28cal/cm²

#### BOX TEST



#### ARC RATING



#### FABRIC





5850

# JACKET

SIZES: S-4XL

- ✓ Mandarin collar // Maximum neck protection
- ✓ One front pocket with zippers // Secure storage
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets with flaps // Prevents entry of debris
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ Extended back // Protection when bending over
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wearer comfort

## PRODUCT INFORMATION

COLOUR: Navy

### FABRIC SPECIFICATION:

VXS+ 250W 250g/m<sup>2</sup> Woven Inherent Fabric

LOI: 30.6%

### PRODUCT CARE:



5790

# LINED FLEECE

SIZES: S-4XL

- ✓ Mandarin collar // Maximum neck protection
- ✓ Two front pockets with zippers // Secure storage
- ✓ Internal pocket // Secure Velcro® tab
- ✓ Fully lined // Extra warmth & protection
- ✓ Drawcord waist adjustment with toggles // Close waist fit
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ Elasticated cuff // Close fit around wrist
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ Extended back // Protection when bending over

## PRODUCT INFORMATION

COLOUR: Navy

### FABRIC SPECIFICATION:

Outer Layer: VXS+ 310F 300g/m<sup>2</sup> Fleece Inherent FabricLining: VXS+ 230C 230g/m<sup>2</sup> Woven Fabric

### PRODUCT CARE:



### EN STANDARDS

A1, A2, B1, C1, E1, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	APC1 ELIM=8cal/cm <sup>2</sup>	Class 1, A1+A2	UPF 40+

### BOX TEST ARC RATING

APC 1	ARC 2

### EN STANDARDS

A1, B1, C2, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	APC1 ELIM=23cal/cm <sup>2</sup> ATPW=26cal/cm <sup>2</sup>

### BOX TEST ARC RATING

APC 1	ARC 2





7638

# TROUSER

**SIZES:**

30"- 52" Reg leg (32"/81cm)  
 32"- 44" Tall leg (34"/86cm)  
 30"- 42" Short leg (30"/76cm)



7636

# LADIES TROUSERS

**SIZES:**

8-16 Reg leg (30"/76cm)



Cut in a specific women's fit

- ✓ Combat pocket with flap // Safe storage space
- ✓ Mobile phone pocket // Keep your phone safe
- ✓ Side access pockets // Traditional style
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Standard icon system
- ✓ Rear pockets with flap // Secure storage space
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Reinforced crotch // Improved longevity
- ✓ ThermSAFE™ jeans button // Jeans style fastening

**PRODUCT INFORMATION**

**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
 VXS+ 250W 250g/m<sup>2</sup> Woven  
 Inherent Fabric

**LOI:** 30.6%

**PRODUCT CARE:**



**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN 13758-2:2003 +A1:2006
A1, A2, B1, C1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM=8cal/cm <sup>2</sup>	Class 1, A1, A2	UPF 40+

**BOX TEST**



**ARC RATING**



**FABRIC**



7720

# COMBAT TROUSER

## SIZES:

30"- 52" Reg leg (31"/80cm)  
32"- 44" Tall leg (33"/85cm)  
32"- 42" Short leg (30"/76cm)



Rear pocket with flap

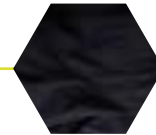
Tool and pen pocket



Higher Cal rating - 100,000 abrasion cycles



Reinforced long hem



- ✓ Combat pocket with flap // Safe storage space
- ✓ External kneepad pockets // Wear with ProGARM® 2240 kneepads for extra protection
- ✓ Mobile phone pocket // Keeps your phone safe
- ✓ Side access pockets // Additional storage
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Standard icon system
- ✓ Reinforced crotch // Improved longevity
- ✓ Reinforced long hem // Stronger leg hem, ability to extend/shorten leg
- ✓ ThermSAFE™ jeans button // Jeans style fastening

## PRODUCT INFORMATION

**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
VXS+ Woven Inherent Fabric, 300gms

**PRODUCT CARE:**



## EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM = 9cal/cm²

## BOX TEST



## ARC RATING



## FABRIC



6100

# COVERALL

**SIZES:**

S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)  
Short leg by re-hemming

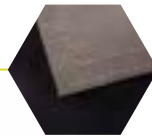
Internal elasticated waistband for improved fit



Velcro® secured cuff tabs



AVAILABLE IN ORANGE



Double stitched 5cm FR IW reflective tape

6101

# LADIES COVERALL

**SIZES:**

8-16 Reg leg (29"/75cm)



Cut in a specific women's fit

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Chest pockets with zippers // Secure storage
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Side access pockets // With access inside the coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort
- ✓ Action back for improved comfort

**PRODUCT INFORMATION**

**COLOUR:** Navy

**FABRIC SPECIFICATION:**

VXS+ 250W 250g/m<sup>2</sup>  
Woven Inherent Fabric

**LOI:** 30.6%

**PRODUCT CARE:**



**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN 13758-2:2003 +A1:2006
A1, A2, B1, C1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM=8cal/cm <sup>2</sup>	Class 1, A1+A2	UPF 40+

**BOX TEST**



**ARC RATING**



**FABRIC**





**ProGARM**<sup>®</sup>  
PROTECTING LIVES

# TWO TONE COLOUR COLLECTION

For full Product Matrix outlining EN Standards, see page 122

✓ **INHERENT PROTECTION**

Flame resistant properties last the lifetime of the fabric and do not wash out

✓ **GREAT COMFORT**

Breathable, soft to wear and fantastic to the touch

✓ **INSTANT EXTINGUISHING PROPERTY**

Ultimate protection against flame and arc flash hazards

✓ **HIGHLY DURABLE**

Colourfast with less than 3% washing shrinkage\*

\*Only applicable for woven fabrics

**VXS+**  
**INHERENT™**



**100%**  
**INHERENT**







### 5480 T-SHIRT

Page 42



### 5808 JACKET

Page 43



### 5816 TROUSER

Page 44



### 5805 HI-VIS JACKET

Page 45



### 5815 HI-VIS TROUSER

Page 46



### 7715 HI-VIS COMBAT TROUSER

Page 47



### 7522 HI-VIS DUNGAREE

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### 6458 COVERALL

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### 6444 COVERALL

Page 50



### 6460 COVERALL

Page 51



### 4658 COVERALL

Page 52



5480

# T-SHIRT

SIZES: S-4XL

NEW



Open cuffs for a relaxed fit



Traditional round neck rib collar



Colour matched to other navy ProGARM garments



5482

# LADIES T-SHIRT

SIZES: 8-18



NEW

- ✓ Round neck rib knit collar // Traditional design
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable with good moisture management
- ✓ Open cuffs // Relaxed fit
- ✓ Generous length // Maximum protection
- ✓ Colour matched to other navy ProGARM® garments // Best appearance
- ✓ SafetylCON™ on arm // Visual EN Norm icon system

## PRODUCT INFORMATION

**COLOUR:** Navy /HV Yellow

**FABRIC SPECIFICATION:** ProGARM VXS+ Inherent interlock fabric 190gms

**PRODUCT CARE:**



### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN 13758-2:2003 +A1:2006
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM= 9.9cal/cm² ATPV= 11 cal/cm²	UPF 40+

### BOX TEST



### ARC RATING



### FABRIC





**IMPROVED**

**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow  
**FABRIC SPECIFICATION:** VXS+ 300W 300g/m2 Woven Inherent Fabric with FC Finish  
**LOI:** 29.3%  
**PRODUCT CARE:**

**5808**

# JACKET

**SIZES:** S-4XL

- ✓ Mandarin collar // Maximum neck protection
- ✓ Two front pockets with zippers // Secure storage
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Extended back // Protection when bending over
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN 13034:2005 +A1:2009
A1, B1, C1, D1, E1, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	APC1 ELIM=9cal/cm² ATPV=12cal/cm²	Class 1, A1	Type 6

**BOX TEST**

**4KA**  
**APC 1**

**ARC RATING**

**9CAL**  
**ARC 2**



\* Type 6 performance when worn in conjunction with 5810, 5814, 5815 and 5816 trousers

5816

# TROUSER

**SIZES:**

- 30"- 52" Reg leg (32"/81cm)
- 32"- 44" Tall leg (34"/86cm)
- 30"- 42" Short leg (30"/76cm)

**IMPROVED**



Side pockets with flaps to prevent debris



Triple needle stitch seams for extra longevity



Internal kneepad pocket to fit ProGARM™ 2240 Kneepad

5814

# LADIES TROUSER

- SIZES:**  
8-16 Reg leg (30"/76cm)

**IMPROVED**



- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Combat pocket with flap // Safe storage space
- ✓ Mobile phone pocket // Keep your phone safe
- ✓ Side access pockets with flaps // Protects from debris entry
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Standard icon system
- ✓ Two rear pockets with flaps // Secure storage space
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Reinforced crotch // Improved longevity
- ✓ ThermSAFE™ jeans button // Jeans style fastening

**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow  
**FABRIC SPECIFICATION:**  
 VXS+ 300W 300g/m2 Woven  
 Inherent Fabric with FC Finish  
**LOI:** 29.3%  
**PRODUCT CARE:**

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN 13034:2005 +A1:2009
A1, A2, B1, C1, D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM = 9cal/cm² ATPV = 12 cal/cm²	Class 1, A1 + A2	Type 6

**BOX TEST**



**ARC RATING**



**FABRIC**



\* Type 6 performance when worn in conjunction with 5805 or 5808 jacket

SUSTAINABLE COLLECTION

SINGLE COLOUR COLLECTION

TWO TONE COLOUR COLLECTION

HIVIS YELLOW COLLECTION

HIVIS ORANGE COLLECTION

BASELAYERS COLLECTION

HEAD PROTECTION PRODUCTS

OTHER ACCESSORIES





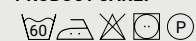
#### PRODUCT INFORMATION

**COLOUR:** Navy/HV Yellow

**FABRIC SPECIFICATION:**  
VXS+ 300W 300g/m<sup>2</sup> Woven  
Inherent Fabric with FC Finish

**LOI:** 29.3%

**PRODUCT CARE:**



## 5805

# HI-VIS JACKET

**SIZES:** S-4XL

- ✓ Mandarin collar // Maximum neck protection
- ✓ Extended back // Protection when bending over
- ✓ Adjustable waist tabs // Creates a good fit
- ✓ Adjustable wrist tabs // Provides a snug fit over gloves and protection
- ✓ Two front chest bellows pockets with flaps // Secure storage
- ✓ Side access pockets with zips // For hands and secure storage
- ✓ Phone and pen pocket on sleeve with flap // Safe and secure
- ✓ 5cm and 7cm FR AS reflective tape, industrial wash // Heated applied, moves with the garment
- ✓ ThermSAFE™ plastic FR zipper and components // CE Certified
- ✓ SafetyICON™ on arm // Visual EN Norm icon system
- ✓ Triple stitched side seams // Lifetime seam guarantee for confidence
- ✓ 2 x gas monitor and/or radio loops // Secure fixing points

#### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 13034:2005 +A1:2009
A1, A2, B1, C1, D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM=9cal/cm <sup>2</sup> ATPV=12cal/cm <sup>2</sup>	Class 1, A1 + A2	Class 2	Type 6

#### BOX TEST

4KA	9CAL
APC 1	ARC 2

#### ARC RATING FABRIC



\* Type 6 performance when worn in conjunction with 5810, 5814, 5815 and 5816 trousers

5815

# HI-VIS TROUSER

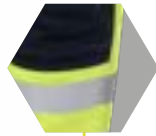
**SIZES:**

- 30" - 52" Reg leg (32"/81cm)
- 32" - 44" Tall leg (34"/86cm)
- 30" - 42" Short leg (30"/76cm)



Combat pockets with flaps for secure storage

Triple needle stitched structural seams have a Lifetime Seam Guarantee



External kneepad pockets to fit ProGARM™ 2240 Kneepad



**NEW**

5810

# LADIES HI-VIS TROUSER

**SIZES:**

- 8-16 Reg leg (30"/76cm)



- ✓ 5cm and 7cm FR AS reflective tape, industrial wash // Heated applied, moves with the garment
- ✓ External kneepad pockets // For extra comfort and knee protection
- ✓ 2 x combat pockets with flaps // Safe storage space
- ✓ Mobile phone pocket on leg // Keep your phone safe
- ✓ Side access pockets // For easy access storage
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper and jeans button // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Norm icon system
- ✓ Two rear pockets with flaps // Secure storage space
- ✓ Triple stitched structural seams // Lifetime quality assurance
- ✓ Reinforced crotch // Improves garment durability

**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow

**FABRIC SPECIFICATION:**  
VXS+ 300W 300g/m2 Woven  
Inherent Fabric with FC Finish

**LOI:** 29.3%

**PRODUCT CARE:**



**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 13034:2005 +A1:2009
A1, A2, B1, C1, D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM = 9cal/cm² ATPV = 12 cal/cm²	Class 1, A1	Class 1	Type 6

**BOX TEST**



**ARC RATING**



**FABRIC**



SUSTAINABLE COLLECTION  
SINGLE COLOUR COLLECTION  
TWO TONE COLOUR COLLECTION  
HI VIS YELLOW COLLECTION  
HI VIS ORANGE COLLECTION  
BASELAYERS COLLECTION  
HEAD PROTECTION PRODUCTS  
OTHER ACCESSORIES

7715

# HI-VIS COMBAT TROUSER

**SIZES:**

30" - 52" Reg leg (32"/81cm)  
 32" - 44" Tall leg (34"/86cm)  
 30" - 42" Short leg (30"/76cm)



Combat pockets with flaps for secure storage

Triple needle stitched structural seams have a Lifetime Seam Guarantee



External kneepad pockets to fit ProGARM™ 2240 Kneepad



**NEW**

- ✓ 5cm and 7cm FR AS industrial wash reflective tape // Stitched on for durability
- ✓ External kneepad pockets // For extra comfort and knee protection
- ✓ Cordura® knee & hem reinforcement // Up to 200,000 abrasion cycles
- ✓ Combat pocket with flap // Safe storage space for phone
- ✓ Open tool/pen pocket on leg // Easy access/storage for tools
- ✓ Two rear pockets with flaps // Secure storage space
- ✓ Side access pockets // For easy access storage
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper and jeans button // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Norm icon system
- ✓ Triple stitched structural seams // Lifetime quality assurance
- ✓ Reinforced crotch // Improves garment durability

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 20471: 2013 +A1:2016
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM=9cal/cm² ATPV=12.9cal/cm²	Class 1

**BOX TEST**



**ARC RATING**



7714

# LADIES HI-VIS COMBAT TROUSER

**SIZES:**

8-16 Reg leg (30"/76cm)



**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow

**FABRIC SPECIFICATION:**

VXS+ 300W 300g/m2 Woven Inherent Fabric, VXS+ 300W 300g/m2 Woven Ripstop Fabric

**PRODUCT CARE:**



**NEW**

**LIFETIME SEAM GUARANTEE**

**VXS+ INHERENT™**

Triple needle stitched structural seams have a Lifetime Seam Guarantee



Combat pockets with flaps for secure storage



External kneepad pockets to fit ProGARM™ 2240 Kneepad



**7522**

# HI-VIS DUNGAREE

**SIZES:** 30" - 52" Reg leg (32"/81cm)  
 32" - 44" Tall leg (34"/86cm)  
 30" - 42" Short leg (30"/76cm)

**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow

**FABRIC SPECIFICATION:**  
 VXS+ 300W 300g/m2 Woven Inherent Fabric, VXS+ 300W 300g/m2 Woven Ripstop Fabric

**PRODUCT CARE:**



- ✓ Cordura® knee & hem reinforcement // Up to 200,000 abrasion cycles
- ✓ 5cm and 7cm FR AS industrial wash reflective tape // Stitched on for durability
- ✓ External kneepad pockets // For extra comfort and knee protection
- ✓ Open tool/pen pocket on leg // Easy access to tools
- ✓ Combat pocket with flap // Safe storage space for phone
- ✓ Two rear pockets with flaps // Secure storage space
- ✓ Side access pockets // For easy access storage
- ✓ Large chest pocket with flap // Safely stores mobile phone
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ Adjustable braces attached to bib rear // Provides comfort-fit
- ✓ ThermSAFE™ plastic FR zipper and brace buttons // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Norm icon system
- ✓ Triple stitched structural seams // Lifetime quality

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 20471: 2013 +A1:2016
A1, B1, C1, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	APC1 ELIM=9cal/cm² ATPV=12.9cal/cm²	Class 1

**BOX TEST**

**4KA**

**APC 1**

**ARC RATING**

**9CAL**

**ARC 2**

**FABRIC**







**6458**

# COVERALL

**SIZES:** S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow

**FABRIC SPECIFICATION:**  
VXS+ 240W 240g/m<sup>2</sup> Woven  
Inherent Fabric

**LOI:** 30.6%

**PRODUCT CARE:**

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Expandable ankle opening with zippers // Easy removal
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ 5cm heat applied reflective tape // Lighter weight
- ✓ Combat pocket on leg plus sleeve pocket // Ample space

- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wearer comfort

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 13758-2:2003 +A1:2006
A1, A2, B1, C1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ELIM=8cal/cm <sup>2</sup>	Class 1, A1+A2	Class 3	UPF 40+

**BOX TEST    ARC RATING    FABRIC**

<b>4KA</b>	<b>8CAL</b>
<b>APC 1</b>	<b>ARC 2</b>



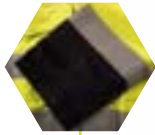
6444

# COVERALL

**SIZES:**

S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

**IMPROVED**



Adjustable cuff with ThermSAFE™ fastening



Chest pockets with zippers for secure storage



ThermSAFE™ plastic FR zippers



6446

# LADIES COVERALL

**SIZES:**

8-16 Reg leg (76cm)



**IMPROVED**

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Chest pockets with zippers // Secure storage
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort
- ✓ Action back for improved comfort

**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow  
**FABRIC SPECIFICATION:** VXS+ 300W 300g/m<sup>2</sup> Woven Inherent Fabric with FC Finish  
**LOI:** 29.3%

**PRODUCT CARE:**



**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 13034:2005 +A1:2009	EN 13758-2:2003 +A1:2006
A1, A2, B1, C1, D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM=9cal/cm <sup>2</sup> ATPV=12cal/cm <sup>2</sup>	Class 1, A1+A2	Class 3	Type 6	UPF 40+

**BOX TEST**



**ARC RATING**



**FABRIC**



\*6446 meets Class 2 and 6444 meets Class 3

SUSTAINABLE COLLECTION

SINGLE COLOUR COLLECTION

TWO TONE COLOUR COLLECTION

HIVIS YELLOW COLLECTION

HIVIS ORANGE COLLECTION

BASELAYERS COLLECTION

HEAD PROTECTION PRODUCTS

OTHER ACCESSORIES



**6460**

# COVERALL

**SIZES:** S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Yellow  
**FABRIC SPECIFICATION:** VXS+ 160W 160g/m2 Woven Inherent Fabric  
**PRODUCT CARE:**

**IMPROVED**

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra comfort
- ✓ Vertical zip chest pockets // Accessible when wearing a harness
- ✓ Expandable ankle opening with zippers // Easy removal
- ✓ SafetyICON™ on arm // Visual EN Norm icon system
- ✓ 5cm heat applied reflective tape // Lighter weight
- ✓ Combat pocket on leg plus sleeve pocket // Ample space

- ✓ Cuff tabs with Velcro® brand fasteners // Close fit around
- ✓ Side access pockets // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 20471: 2013 +A1:2016	IEC 61482-2: 2018
A1, B1, C1, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	Class 3	APC1 ELIM=5cal/cm² EBT50=5.8cal/cm²

**BOX TEST**

**4KA**  
**APC 1**

**ARC RATING**

**5CAL**  
**ARC 1**

**FABRIC**

**VXS+**  
**INHERENT™**

4658

# COVERALL

**SIZES:**

S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

**IMPROVED**



Adjustable cuff with ThermSAFE™ fastening

Chest pockets with zippers for secure storage

ThermSAFE™ plastic FR zippers



- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra comfort
- ✓ Vertical zip chest pockets // Accessible when wearing a harness
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyIcon™ on arm // Visual EN Norm icon system
- ✓ 5cm heat applied reflective tape // Lighter weight
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets with flaps // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort
- ✓ Combat pocket on leg plus sleeve pocket // Ample space
- ✓ Expandable ankle opening with zippers // Easy removal

**PRODUCT INFORMATION**

**COLOUR:** Navy/HV Orange

**FABRIC SPECIFICATION:**  
ProGARM VXS+ Inherent Woven Fabric, HV Orange - 290gms  
ProGARM VXS+ Inherent Woven Fabric, Navy - 240gms

**PRODUCT CARE:**

**EN STANDARDS**

 EN ISO 11612: 2015 A1, B1, C1, F1	 EN ISO 20471: 2013 +A1:2016 Class 3	 IEC 61482-2: 2018 ATPV = 8cal/cm² APC 1	 RIS 3279 Compliant Issue 1	 EN ISO 11611: 2015 Class 1, A1	 EN 1149-5: 2018 Pt. 5:2018 Pt. 3:2004 Charge Decay
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**BOX TEST**



**ARC RATING**



**FABRIC**



SUSTAINABLE COLLECTION  
 SINGLE COLOUR COLLECTION  
 TWO TONE COLOUR COLLECTION  
 HI VIS YELLOW COLLECTION  
 HI VIS ORANGE COLLECTION  
 BASELAYERS COLLECTION  
 HEAD PROTECTION PRODUCTS  
 OTHER ACCESSORIES





“

**We have had these trousers for over 6 months and they are still going strong whereas before we had to replace trousers nearly every three weeks!**

”

**VXS+**  
INHERENT™



**100%  
INHERENT**



# HI VIS YELLOW COLLECTION

For full Product Matrix outlining EN Standards, see page 122

✓ **INHERENT PROTECTION**

Flame resistant properties last the lifetime of the fabric and do not wash out

✓ **INSTANT EXTINGUISHING PROPERTY**

Ultimate protection against flame and arc flash hazards

✓ **GREAT COMFORT**

Breathable, soft to wear and fantastic to the touch

✓ **HIGHLY DURABLE**

Colourfast with less than 3% washing shrinkage\*

\*Only applicable for woven fabrics





LADIES AVAILABLE 5287

### 5286 POLO SHIRT

Page 56



NEW

LADIES AVAILABLE 5487

### 5486 T-SHIRT

Page 57



### 5626 SWEATSHIRT

Page 58



IMPROVED

### 9930 SOFTSHELL JACKET

Page 59



LADIES AVAILABLE 7414

### 7418 TROUSER

Page 60



### 9750 WATERPROOF JACKET

Page 61



### 9880 WATERPROOF SALOPETTES

Page 62



LADIES AVAILABLE 7482

### 7480 COVERALL

Page 63



### 9720 WATERPROOF JACKET

Page 64



### 9820 WATERPROOF SALOPETTES

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NEW

### 9150 UNLINED WATERPROOF JACKET

Page 66



NEW

### 9155 UNLINED WATERPROOF DUNGAREE

Page 67



5286

# POLO SHIRT

SIZES: S-4XL



Heat applied stretch tape for additional comfort



Enclosed fastenings on placket



Stretch cuff with Lycra®

5287

# LADIES POLO SHIRT

SIZES: 8-16



- ✓ Enclosed stud placket // Allows quick fastening
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable // Good moisture management
- ✓ ThermSAFE™ plastic FR poppers // CE Certified
- ✓ Knitted collar with tipping // Ensures best appearance after washing
- ✓ Contrast colour collar // Stylish and practical
- ✓ Rib knit cuffs // Close fit
- ✓ SafetyICON™ on arm // Visual EN Standards icon system
- ✓ 5cm FR AS reflective tape // Heat applied to improve flexibility

## PRODUCT INFORMATION

**COLOUR:** HV Yellow

**FABRIC SPECIFICATION:** ProGARM® VXS+ Inherent Pique Fabric, HV Yellow - 210gms

**PRODUCT CARE:**



### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 20471: 2013 +A1:2016
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	ELIM = 5.6cal/cm² ATPV = 6.2cal/cm² APC 1	Class 3

### BOX TEST



### ARC RATING



### FABRIC



\*5287 meets Class 2 and 5286 meets Class 3



5486

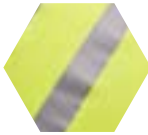
# HI-VIS T-SHIRT

SIZES: S-4XL

Traditional round neck rib collar



Heat applied stretch tape for additional comfort



NEW



Open cuffs for a relaxed fit

5487

# LADIES HI-VIS T-SHIRT

SIZES: 8-18



NEW

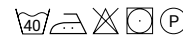
- ✓ Round neck rib knit collar // Traditional design
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable with good moisture management
- ✓ Open cuffs // Relaxed fit
- ✓ Generous length // Maximum protection
- ✓ Colour matched to other navy ProGARM® garments // Best appearance
- ✓ SafetyICON™ on arm // Visual EN Norm icon system

## PRODUCT INFORMATION

**COLOUR:** HV Yellow/Navy

**FABRIC SPECIFICATION:**  
ProGARM VXS+ Inherent interlock fabric 190gms

**PRODUCT CARE:**



## EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 20471: 2013 +A1:2016	EN 61482-2: 2020	EN 13758-2:2003 +A1:2006
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 2	APC1 ELIM=9.9cal/cm²	UPF 40+

## BOX TEST



## ARC RATING



## FABRIC



# SWEATSHIRT

5626

SIZES: S-4XL



## PRODUCT INFORMATION

**COLOUR:** HV Yellow

**FABRIC SPECIFICATION:**  
ProGARM® VXS+ Inherent Sweat Fabric, HV Yellow - 320gms

**LOI:** 30.8%

**PRODUCT CARE:**



- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable // Good moisture management
- ✓ Rib knit cuffs // Close fit
- ✓ SafetyICON™ on arm // Visual EN Standards icon system
- ✓ 5cm FR AS reflective tape // Heat applied to improve flexibility

- ✓ Brushed fleece inner // Winter warmth
- ✓ Round neck collar with stretch rib // Smart appearance
- ✓ 5cm stretch rib hem // Best fit around the waist
- ✓ Arm pocket // Useful pocket for phone or small items

### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 20471: 2013 +A1:2016	EN 13758-2:2003 +A1:2006
A1, B1, C2, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	APC1 ELIM = 12cal/cm²	Class 3	UPF 40+

### BOX TEST

4KA
APC 1

### ARC RATING

12CAL
ARC 2

### FABRIC





Adjustable cuff with soft cuffing on inside for extra warmth



Covered zipped hand pockets

Adjustable waist strap with ThermSAFE™ hook and loop



**IMPROVED**

**9930**

# SOFTSHELL JACKET

**SIZES: S-4XL**

**PRODUCT INFORMATION**

**COLOUR:** HV Yellow / Navy

**FABRIC SPECIFICATION:**  
VXS+ Inherent Woven Weave  
Fabric with Waterproof Membrane—340gms

**PRODUCT CARE:**

- ✓ Two tone design // Practical and stylish
- ✓ Elasticated inner cuffs // Wind proofing
- ✓ Velcro® fastening tabs on cuffs and back // Improved fit
- ✓ Radio loop attaching point on left breast
- ✓ Zipped Napoleon pocket on left breast with incorporated phone pocket // Safe and secure
- ✓ Inner pockets on right hand breast // Storage space
- ✓ Covered, zipped hand pockets // Keeps out debris and keeps contents secure

- ✓ Mandarin collar // Maximum neck protection
- ✓ 50mm double stitched reflective tape // Increased durability
- ✓ Microfleece lining // Warmth and comfort
- ✓ Easy Stretch side panels // Wearer comfort
- ✓ Extended back // Protection when bending over
- ✓ SafetyICON™ on arm // Visual EN Standards
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ ThermSAFE™ two-way plastic FR zipper // Flexibility

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 20471: 2013 +A1:2016
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC2 ELIM=23cal/cm² EBT50=28cal/cm²	Class 3 excludes Clause 5.6

**BOX TEST**

**7KA**  
**APC 2**

**ARC RATING**

**23CAL**  
**ARC 2**

**FABRIC**



7418

# TROUSER

**SIZES:** 30"- 52" Reg leg (31"/80cm)  
32"- 44" Tall leg (33"/85cm)  
30"- 42" Short leg (30"/76cm)



Combat pocket on right leg with SafetyICON™ EN Standard identification



Triple needle stitch seams for extra longevity



7414

# LADIES TROUSER

**SIZES:** 8-16 Reg leg (30"/76cm)



- ✓ Combat pocket with flap // Safe storage space
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Mobile phone pocket // Keeps your phone safe
- ✓ Side access pockets with flaps // Protects from debris entry
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Standards icon system
- ✓ Rear pockets with flap // Secure storage space
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Reinforced crotch // Improved longevity
- ✓ ThermSAFE™ jeans button // Jeans style fastening

## PRODUCT INFORMATION

**COLOUR:** HV Yellow

**FABRIC SPECIFICATION:**  
VXS+ HVY250W 250g/m<sup>2</sup> Woven  
Inherent Hi-Visibility Fabric

**LOI:** 30.6%

**PRODUCT CARE:**



## EN STANDARDS

A1, A2, B1, C1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM=8cal/cm <sup>2</sup>	Class 1, A1+A2	Class 2	UPF 40+

## BOX TEST



## ARC RATING



## FABRIC



\*7414 meets class 1 and 7418 meets class 2





No seams on shoulders to improve durability and comfort whilst wearing harness

**PRODUCT INFORMATION**

**COLOUR:** HV Yellow/ Navy

**FABRIC SPECIFICATION:**  
**Outer Layer:** VXS+ Inherent Special Weave Fabric with Waterproof Membrane - 395gms

**Lining Layer:** VXS+ Inherent Woven fabric - 200gms

**LOI:** 27.0%

**PRODUCT CARE:**



**9750**

# WATERPROOF JACKET

**SIZES:** S-4XL

- ✓ Two tone design // Practical and stylish
- ✓ Elasticated inner cuffs // Wind proofing
- ✓ Velcro® fastening tabs on cuffs and back // Improved fit
- ✓ Fully adjustable, fold away hood with Velcro® // Safety and comfort
- ✓ Radio loop attaching point on left breast
- ✓ Storm flap // Wind proofing
- ✓ Zipped Napoleon pocket on left breast with incorporated phone pocket // Safe and secure
- ✓ Taped seams // Waterproof and windproof
- ✓ Inner pockets on right hand breast // Storage space
- ✓ Covered, zipped hand pockets // Keeps out debris and keeps contents secure
- ✓ Mandarin collar // Maximum neck protection
- ✓ 50mm double stitched reflective tape // Increased durability
- ✓ Fully lined // Warmth and comfort
- ✓ Easy-Stretch™ side panels // Wearer comfort
- ✓ Extended back // Protection when bending over
- ✓ SafetyICON™ // Visual EN standards
- ✓ ThermSAFE™ plastic FR zipper // CE Certified

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2009	EN 61482-2: 2020
A1, B1, C2, D3, E3, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	Class 2, A1	Class 3	Class 3/3/x	Type 6	APC2 ELIM=42cal/cm² ATPV=47cal/cm²

**BOX TEST**

**7KA**  
**APC 2**

**ARC RATING**

**42CAL**  
**ARC 4**

**FABRIC**



\* Type 6 performance when worn in conjunction with 9880 salopettes

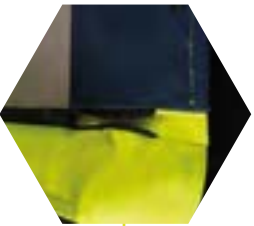
9880

# WATERPROOF SALOPETTES

SIZES: S-4XL



Removable and adjustable braces



Expandable ankle opening with zipper



**PRODUCT INFORMATION**

**COLOUR:** HV Yellow / Navy  
**FABRIC SPECIFICATION:**  
**Outer Layer:** VXS+ Inherent Special Weave Fabric with Waterproof Membrane - 395gms  
**Lining Layer:** VXS+ Inherent Woven Fabric - 200gms  
**LOI:** 27.0%  
**PRODUCT CARE:**

Salopettes are part of 2 garment set and should be worn with the compatible jacket (9750)



- ✓ 70mm double stitched reflective tape // Increased durability
- ✓ Removable & adjustable suspenders
- ✓ Combat pocket with phone pocket // Convenience and storage space
- ✓ Suspender back plate // Adjustable for comfort
- ✓ 2 side pockets // Storage space
- ✓ SafetyICON™ on arm // Visual EN Certified
- ✓ Side access // For use as overtrousers
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ Fully lined // Warmth and comfort
- ✓ Extra wide belt loop at rear // Prevents belt riding up

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2009	EN 61482-2: 2020
A1, B1, C2, D3, E3, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 2, A1	Class 2	Class 3/3/x	Type 6	APC 2 ELIM = 42cal/cm² ATPV = 47cal/cm²

**BOX TEST ARCRATING FABRIC**

7KA	42CAL	
APC 2	ARC 4	

\* Type 6 performance when worn in conjunction with 9750 jacket

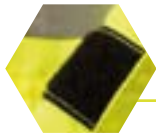
7480

# COVERALL

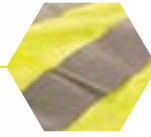
**SIZES:**

S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

Featuring flame resistant ThermSAFE™ hook and loop



Side access pockets



Double stitched 5cm FR AS reflective tape

7482

# LADIES COVERALL

**SIZES:**

8-16 Reg leg (29"/175cm)



Cut in a specific women's fit

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Chest pockets with flaps // Secure storage
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Standards icon system
- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort

**PRODUCT INFORMATION**

**COLOUR:** HV Yellow

**FABRIC SPECIFICATION:**  
VXS+ HVY250W 250g/m² Woven  
Inherent Hi-Visibility Fabric

**LOI:** 30.6%

**PRODUCT CARE:**



**EN STANDARDS**

EN ISO 11612:2015	EN 1149-5:2018	EN 61482-2:2020	EN ISO 11611:2015	EN ISO 20471:2013+A1:2016	EN 13758-2:2003+A1:2006
A1, A2, B1, C1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM=8cal/cm²	Class 1, A1+A2	Class 3	UPF 40+

**BOX TEST**



**ARC RATING**



**FABRIC**



No seams on shoulders to improve durability and comfort whilst wearing harness

9720



#### PRODUCT INFORMATION

**COLOUR:** HV Yellow / Navy

**FABRIC SPECIFICATION:**

**Outer Layer:** VXS+ Inherent Special Weave Fabric with Waterproof Membrane - 250gms

**Lining Layer:** VXS+ Inherent Woven Fabric - 120gms

**PRODUCT CARE:**



LIFETIME SEAM GUARANTEE

VXS+  
INHERENT™

# WATERPROOF JACKET

SIZES: S-4XL

- ✓ Elasticated inner cuffs // Wind proofing
- ✓ Cuff tabs with Velcro® brand fasteners // Improved fit
- ✓ Fully adjustable, fold away hood with Velcro® // Safety and comfort
- ✓ Storm flap // Wind proofing
- ✓ Removable hood
- ✓ Radio loop attaching point on left breast
- ✓ Zipped Napoleon pocket on left breast with incorporated phone pocket // Safe and secure
- ✓ Inner pockets on right hand breast // Storage space
- ✓ Taped seams // Waterproof and windproof
- ✓ Covered, zipped hand pockets // Keeps out debris and keeps contents secure
- ✓ No seams on shoulder // Improved durability and comfort whilst wearing a harness
- ✓ Mandarin collar // Maximum neck protection
- ✓ 50mm FR reflective tape // Increased durability
- ✓ 120gms lining // Lightweight
- ✓ Easy-Stretch™ side panels // Wear comfort
- ✓ Extended back // Protection when bending over
- ✓ SafetyICON™ // Visual EN Standards
- ✓ ThermSAFE™ plastic FR zipper // CE Certified

#### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2019	IEC 61482-2: 2018
A1, B1, C1 D1, E1, F1	Pl. 5:2018 Pl. 3:2004 Charge Decay	Class 1, A1	Class 3	Class 3/3/x	Type 6	APC2 ELIM = 23cal/cm² ATPV = 25cal/cm²

#### BOX TEST



#### ARC RATING



#### FABRIC



VXS+  
INHERENT™

\* Type 6 performance when worn in conjunction with 9820 salopettes



9820

# WATERPROOF SALOPETTES

SIZES: S-4XL



Removable and adjustable braces

Expandable ankle opening with zipper

## PRODUCT INFORMATION

**COLOUR:** HV Yellow / Navy  
**FABRIC SPECIFICATION:**  
**Outer Layer:** VXS+ Inherent Special Weave Fabric with Waterproof Membrane - 250gms  
**Lining Layer:** VXS+ Inherent Woven Fabric -120gms

### PRODUCT CARE:



- ✓ 50mm FR reflective tape // Increased durability
- ✓ Combat pocket with phone pocket // Convenience and storage space
- ✓ 2 side pockets // Storage space
- ✓ Side access // For use as overtrousers
- ✓ 120gms lining // Lightweight
- ✓ Removable & adjustable suspenders
- ✓ Suspender back plate // Adjustable for comfort
- ✓ SafetyICON™ on arm // Visual EN Certified
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ Extra wide belt loop at rear // Prevents belt riding up

## EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2019	IEC 61482-2: 2018
A1, B1, C1 D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 1, A1	Class 3	Class 3/3/x	Type 6	APC2 ELIM = 23cal/cm² ATPV = 25cal/cm²

## BOX TEST



## ARC RATING



## FABRIC



\* Type 6 performance when worn in conjunction with 9720 jacket



9150

# UNLINED WATERPROOF JACKET

SIZES: S-4XL



NEW



9151

## HI-VIS YELLOW HOOD



- ✓ Mandarin collar // Maximum neck protection
- ✓ Adjustable cuffs // Close fit around wrists or gloves
- ✓ Two front pockets // Extra, secure storage
- ✓ Adjustable waist tabs // Ensures close fit
- ✓ Studs to attach waterproof hood // Protection from all weather
- ✓ Ability to attach padded liner jacket // For extra warmth
- ✓ Internal pockets // Secure storage

### PRODUCT INFORMATION

**COLOUR:** HV Yellow/Navy

**FABRIC SPECIFICATION:**  
ProGARM VXS+ FR Inherent Woven Fabric, 250gms

**PRODUCT CARE:**



#### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2009	EN 61482-2: 2020
A1, B1, C1 D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 1, A1	Class 3	Class 3/3/x	Type 6	APC2 ELIM = 9.3cal/cm <sup>2</sup> ATPV = 11cal/cm <sup>2</sup>

#### BOX TEST



#### ARC RATING



#### FABRIC



\* Type 6 performance when worn in conjunction with 9155 dungarees



9155

# UNLINED WATERPROOF DUNGAREE

SIZES: S-4XL

## PRODUCT INFORMATION

COLOUR: HV Yellow/Navy

**FABRIC SPECIFICATION:**  
ProGARM VXS+ FR Inherent  
Woven Fabric, 250gms

PRODUCT CARE:



- ✓ Elasticated waist
- ✓ 2 bands of FR heat applied reflective tape
- ✓ Press studs at leg hem to reduce width

## EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2009	EN 61482-2: 2020
A1, B1, C1 D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 1, A1	Class 3	Class 3/3/x	Type 6	APC 1 ELIM=9.3cal/cm² ATPV=11cal/cm²

## BOX TEST



## ARC RATING



## FABRIC



\* Type 6 performance when worn in conjunction with 9150 jacket



**ProGARM**<sup>®</sup>  
PROTECTING LIVES

# HI VIS ORANGE COLLECTION

For full Product Matrix outlining EN Standards, see page 122

✓ **INHERENT PROTECTION**

Flame resistant properties last the lifetime of the fabric and do not wash out

✓ **GREAT COMFORT**

Breathable, soft to wear and fantastic to the touch

✓ **INSTANT EXTINGUISHING PROPERTY**

Ultimate protection against flame and arc flash hazards

✓ **HIGHLY DURABLE**

Colourfast with less than 3% washing shrinkage\*

\*Only applicable for woven fabrics

**VXS+**  
**INHERENT**<sup>™</sup>



**100%**  
**INHERENT**





IMPROVED

LADIES AVAILABLE  
5292

### 5290 POLO SHIRT

Page 70



### 5390 POLO SHIRT

Page 71



### 5648 SWEATSHIRT

Page 72



IMPROVED

### 4608 JACKET

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IMPROVED

LADIES  
AVAILABLE  
4614

### 4616 TROUSER

Page 74



IMPROVED

LADIES  
AVAILABLE  
4614-ARA

### 4616-ARA LIGHTWEIGHT TROUSER

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### 9440 WATERPROOF JACKET

Page 76



### 9660 WATERPROOF SALOPETTES

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IMPROVED

LADIES  
AVAILABLE  
4692

### 4690 COVERALL

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IMPROVED

LADIES  
AVAILABLE  
4694

### 4693 COVERALL

Page 79



### 9422 WATERPROOF JACKET

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### 9622 WATERPROOF SALOPETTES

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NEW

### 9140 UNLINED WATERPROOF JACKET

Page 82



NEW

### 9144 UNLINED WATERPROOF DUNGAREE

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5290

# POLO SHIRT

SIZES: S-4XL

IMPROVED

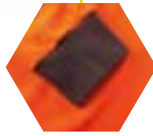
Ultra-soft and durable VXS+ Fabric



Safety ICON  
EN Standard  
identification



Contrast  
cuffing



5292

# LADIES POLO SHIRT

SIZES: 8-16



- ✓ Enclosed stud placket // Allows quick fastening
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable with good moisture management
- ✓ ThermSAFE™ plastic FR poppers // CE Certified
- ✓ Knitted collar with tipping // Ensures best appearance after washing
- ✓ Contrast colour collar // Stylish and practical
- ✓ Rib knit cuffs // Close fit
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ 5cm FR AS reflective tape // Heat applied to improve flexibility

## PRODUCT INFORMATION

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**  
ProGARM® VXS+ Inherent Pique  
Fabric, HV Orange - 220gms

**PRODUCT CARE:**



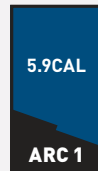
## EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 20471: 2013 +A1:2016	Compliant
A1, B1, C1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ATPV=6.3 cal/cm² ELIM=5.9 cal/cm²	Class 3	Issue 2

## BOX TEST



## ARC RATING



## FABRIC



\*5292 meets Class 2 and 5290 meets Class 3



5390

# POLO SHIRT

SIZES: S-4XL



Safety ICON  
EN Standard  
identification

Ultra-soft and  
durable VXS+  
Fabric

### PRODUCT INFORMATION

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**  
ProGARM VXS+ Inherent Knitted  
Fabric, HV Orange - 250gms

**PRODUCT CARE:**



Contrast  
cuffing

- ✓ Enclosed stud placket // Allows quick fastening
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable with good moisture management
- ✓ ThermSAFE™ plastic FR poppers // CE Certified
- ✓ Knitted collar with tipping // Ensures best appearance after washing
- ✓ Contrast colour collar // Stylish & practical
- ✓ Rib knit cuffs // Close fit
- ✓ SafetyICON™ on arm // Visual EN Norm icon system
- ✓ 5cm FR AS Reflective tape // Heat applied to improve flexibility

#### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 20471: 2013 +A1:2016	Compliant	EN 61482-2: 2020
A1, B1, C1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 3	Issue 2	ATPV = 6.9cal ELIM = 6.2cal

#### BOX TEST



#### OPEN ARC



#### FABRIC



5648

# SWEATSHIRT

SIZES: S-4XL



Twin needle  
stitch on  
neckline



Useful arm  
pocket for  
phone or  
small items

Fleece lined for  
extra warmth



## PRODUCT INFORMATION

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**  
ProGARM® VXS+ Inherent Sweat  
Fabric, HV Orange - 430gms

**LOI:** 30.2%

**PRODUCT CARE:**



- ✓ Brushed fleece inner // Winter warmth
- ✓ VXS+ blend // Natural feel, comfortable and soft
- ✓ Breathable with good moisture management
- ✓ Round neck collar with stretch rib // Smart appearance
- ✓ Contrast colour collar // Stylish and practical

- ✓ Rib knit cuffs // Close fit
- ✓ 5cm stretch rib hem // Best fit around the waist
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ Arm pocket // Useful pocket for phone or small items
- ✓ 5cm FR AS reflective tape // Heat applied to improve flexibility

### EN STANDARDS

EN ISO 11612: 2015	Compliant	EN 61482-2: 2020	EN ISO 20471: 2013 +A1:2016	EN 13758-2:2003 +A1:2006
A1, B1, C2, F1	Issue 2	APC 1 ELIM=9.9cal/cm² ATPV=14cal/cm²	Class 3	UPF 40+

### BOX TEST



### ARC RATING



### FABRIC





**IMPROVED**

Vertical pocket with zipper

Adjustable waist fastening for improved fit

Side pockets with flaps to prevent debris

**PRODUCT INFORMATION**

**COLOUR:** HV Orange  
**FABRIC SPECIFICATION:** ProGARM VXS+ Inherent Woven Fabric, HV Orange - 290gms  
**PRODUCT CARE:**



**4608**

# JACKET

**SIZES: S-4XL**

- ✓ Mandarin collar for maximum neck protection
- ✓ Vertical chest pocket with zipper // Discreet design
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Standard icon system
- ✓ 5cm FR AS reflective Tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets with flaps // Prevents entry of debris
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ Extended back // Protection when bending over
- ✓ Double stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	Compliant
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ATPV=9.3cal/cm² ELIM=8cal/cm²	Class 1, A1	Class 3	Issue 2

**BOX TEST    ARC RATING    FABRIC**

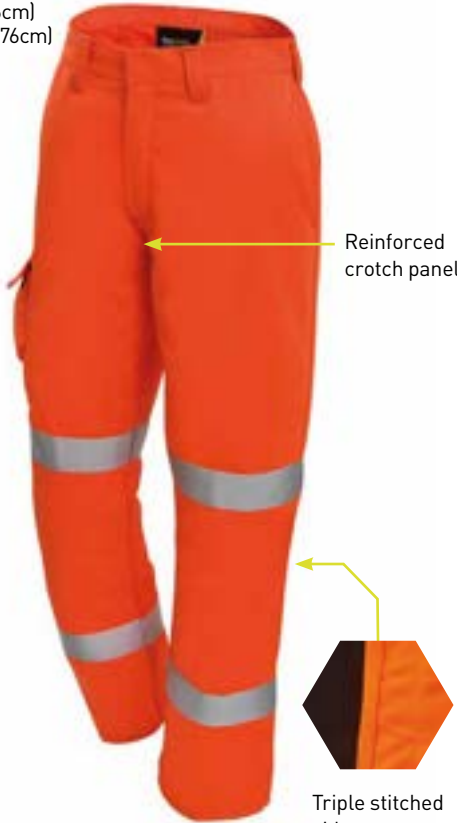
4KA	8CAL	<b>VXS+ INHERENT™</b>
APC 1	ARC 2	

4616

# TROUSER

**SIZES:** 30" - 52" Reg leg (32"/81cm)  
32" - 44" Tall leg (34"/86cm)  
30" - 42" Short leg (30"/76cm)

**IMPROVED**



Reinforced crotch panel

Combat pocket on right leg with SafetyICON™ EN Standard identification



Triple stitched side seams

4614

# LADIES TROUSER

**SIZES:**  
8-16 Reg leg (30"/76cm)



- ✓ Combat pocket with flap // Safe storage space
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Mobile phone pocket // Keeps your phone safe
- ✓ Side access pockets with flaps // Protects from debris entry
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Standard icon system
- ✓ Rear pockets with flap // Secure storage space
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Reinforced crotch // Improved longevity
- ✓ ThermSAFE™ jeans button // Jeans style fastening
- ✓ 5cm FR AS reflective tape // Double stitched for longer life

## PRODUCT INFORMATION

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**  
ProGARM VXS+ Inherent Woven Fabric, HV Orange - 290gms

**PRODUCT CARE:**



### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	Compliant
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 1 ATPV=9.3cal/cm² ELIM=8cal/cm²	Class 1, A1	Class 1	Issue 2

### BOX TEST



### ARC RATING



### FABRIC





# 4616-ARA

## LIGHTWEIGHT TROUSER

**SIZES:** 30"- 52" Reg leg (32"/81cm)  
32"- 44" Tall leg (34"/86cm)  
30"- 42" Short leg (30"/76cm)

**NEW**



Reinforced crotch panel

Combat pocket on right leg with SafetyICON™ EN Standard identification



Triple stitched side seams

# 4614-ARA

## LIGHTWEIGHT LADIES TROUSER

**SIZES:**  
8-16 Reg leg (30"/76cm)



- ✓ Combat pocket with flap // Safe storage space
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Mobile phone pocket // Keeps your phone safe
- ✓ Side access pockets with flaps // Protects from debris entry
- ✓ Extra wide belt loop at rear // Prevents belt riding up
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ SafetyICON™ on leg pocket // Visual EN Standard icon system
- ✓ Rear pockets with flap // Secure storage space
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Reinforced crotch // Improved longevity
- ✓ ThermSAFE™ jeans button // Jeans style fastening
- ✓ 5cm FR AS reflective tape // Double stitched for longer life

### PRODUCT INFORMATION

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**  
ProGARM VXS+ Inherent Woven Fabric, HV Orange - 240gms

**PRODUCT CARE:**



### EN STANDARDS

 EN ISO 11612: 2015 A1, B1, C1, F1	 EN 1149-5: 2018 Pt. 5:2018 Pt. 3:2004 Charge Decay	 EN 61482-2: 2020 APC1 ELIM 6.2 cal/cm² ATPV 6.87 cal/cm²	 EN ISO 11611: 2015 Class 1, A1	 EN ISO 20471: 2013 +A1:2016 Class 1	 RIS 3279 Compliant Issue 2
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### BOX TEST



### ARC RATING



### FABRIC





No seams on shoulders to improve durability and comfort whilst wearing harness

#### PRODUCT INFORMATION

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**

**Outer Layer:** VXS+ Inherent Special Weave Fabric with Waterproof Membrane - 395gms

**Lining Layer:** VXS+ Inherent Woven Fabric - 200gms

**LOI:** 27.0%

**PRODUCT CARE:**



9440

# WATERPROOF JACKET

SIZES: S-4XL

- ✓ Elasticated inner cuffs // Wind proofing
- ✓ Storm flap // Wind proofing
- ✓ Taped seams // Waterproof and windproof
- ✓ Velcro® fastening tabs on cuffs and back // Improved fit
- ✓ Fully adjustable, fold away hood with Velcro® // Safety and comfort
- ✓ Radio loop attaching point on left breast
- ✓ Zipped Napoleon pocket on left breast with incorporated phone pocket // Safe and secure
- ✓ Inner pockets on right hand breast // Storage space
- ✓ Covered, zipped hand pockets // Keeps out debris and keeps contents secure
- ✓ No seams on shoulder // Improved durability and comfort whilst wearing a harness
- ✓ Mandarin collar // Maximum neck protection
- ✓ 50mm double stitched reflective tape // Increased durability
- ✓ Fully lined // Warmth and comfort
- ✓ Easy stretch side panels // Wearer comfort
- ✓ Extended back // Protection when bending over
- ✓ SafetyICON™ // Visual EN Standard
- ✓ ThermSAFE™ plastic FR zipper // CE Certified

#### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2009	EN 61482-2: 2020	Compliant
A1, B1, C2, D3, E3, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 2, A1	Class 3	Class 3/3/x	Type 6	APC2 ATPV=47cal/cm² ELIM=42cal/cm²	Issue 2

#### BOX TEST

#### ARC RATING

#### FABRIC

7KA	42CAL
APC 2	ARC 4



\* Type 6 performance when worn in conjunction with 9660 salopettes

9660

# WATERPROOF SALOPETTES

SIZES: S-4XL



**PRODUCT INFORMATION**

**COLOUR:** HV Orange  
**FABRIC SPECIFICATION:**  
**Outer Layer:** VXS+ Inherent Special Weave Fabric with Waterproof Membrane - 395gms  
**Lining Layer:** VXS+ Inherent Woven Fabric - 200gms  
**LOI:** 27.0%  
**PRODUCT CARE:**

Removable braces



Expandable ankle opening with zipper



Salopettes are part of 2 garment set and should be worn with the compatible jacket (9440)



- ✓ 70mm double stitched reflective tape // Increased durability
- ✓ Removable and adjustable suspenders
- ✓ Combat pocket with phone pocket // Convenient storage space
- ✓ Suspender back plate // Adjustable for comfort
- ✓ 2 side pockets // Storage space
- ✓ SafetyICON™ on arm // Visual EN Standard
- ✓ Side access // For use as overtrousers
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ Fully lined // Warmth and comfort
- ✓ Extra wide belt loop at rear // Prevents belt riding up

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2009	IEC 61482-2: 2009	Compliant
A1, B1, C2, D3, E3, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 2, A1	Class 3	Class 3/3/x	Type 6	APC2 ELIM=42cal/cm² ATPV=47cal/cm²	Issue 2

**BOX TEST ARC RATING FABRIC**

7KA	42CAL	VXS+ INHERENT™
APC 2	ARC 4	

\* Type 6 performance when worn in conjunction with 9440 jacket

4690

# COVERALL

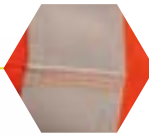
**SIZES:**

S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

Internal elasticated waistband for improved fit



Wear with kneepads for extra protection



Double stitched 5cm FR AS reflective tape

**IMPROVED**

4692

# LADIES COVERALL

**SIZES:**

8-16 Reg leg (29"/75cm)



Cut in a specific women's fit

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra protection
- ✓ Chest pockets with flaps // Secure storage
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Standard
- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Velcro® secured cuff tabs // Close fit around wrist or gloves
- ✓ Side access pockets // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Triple stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort

**PRODUCT INFORMATION**

**COLOUR:** HV Orange  
**FABRIC SPECIFICATION:** ProGARM® VXS+ Inherent Woven Fabric, HV Orange - 290gms  
**PRODUCT CARE:**

**EN STANDARDS**

 EN ISO 11612: 2015 A1, B1, C1, F1	 EN 1149-5: 2018 Pt. 5:2018 Pt. 3:2004 Charge Decay	 EN 61482-2: 2020 APC1 ATPV=9.3cal/cm² ELIM=8cal/cm²	 EN ISO 11611: 2015 Class 1, A1	 EN ISO 20471: 2013 +A1:2016 Class 3	 RIS 3279 Compliant Issue 2
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**BOX TEST**



**ARC RATING**



**FABRIC**



SUSTAINABLE COLLECTION  
 SINGLE COLOUR COLLECTION  
 TWO TONE COLOUR COLLECTION  
 HI VIS YELLOW COLLECTION  
 HI VIS ORANGE COLLECTION  
 BASELAYERS COLLECTION  
 HEAD PROTECTION PRODUCTS  
 OTHER ACCESSORIES



4693

# COVERALL

**SIZES:**

S-4XL Reg leg (31"/80cm)  
M-2XL Tall leg (33"/85cm)

Double stitched  
ThermSAFE™ reflective  
tape for longevity



Back pockets  
for secure  
storage



Vertical  
chest  
pockets  
with grab  
tabs for  
easier  
opening

**IMPROVED**

4694

# LADIES COVERALL

**SIZES:**

8-16 Reg leg (29"/75cm)



Cut in a  
specific  
women's fit

- ✓ Mandarin collar // Maximum neck protection
- ✓ Kneepad pockets // Wear with kneepads for extra comfort
- ✓ Chest pockets // Secure storage
- ✓ Gas monitor loop // Secure fixing point
- ✓ SafetyICON™ on arm // Visual EN Norm icon system
- ✓ 5cm FR AS reflective tape // Double stitched for longer life
- ✓ Phone pocket on sleeve with flap // Safe and secure
- ✓ Cuff tabs with VELCRO® brand fasteners // Close fit around wrists
- ✓ Side access pockets with flaps // With entry inside coverall
- ✓ ThermSAFE™ plastic FR zippers // CE Certified
- ✓ Internal elastic 2 point adjustable waistband // Ensures close fit
- ✓ Double stitched side seams // Lifetime quality assurance
- ✓ Easy-Stretch™ side panels // Maximum wear comfort

**PRODUCT INFORMATION**

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**  
ProGARM VXS+ Inherent Woven  
Fabric, HV Orange - 240gms

**PRODUCT CARE:**



**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	Compliant
A1, B1, C1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC1 ELIM 6.2 cal/cm² ATPV 6.7 cal/cm²	Class 1, A1	Class 3	Issue 2

**BOX TEST**



**ARC RATING**



**FABRIC**



No seams on shoulders to improve durability and comfort whilst wearing harness

9422



#### PRODUCT INFORMATION

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**

**Outer Layer:** VXS+ Inherent Special Weave Fabric with Waterproof Membrane - 250gms

**Lining Layer:** VXS+ Inherent Woven Fabric - 120gms

**PRODUCT CARE:**



# WATERPROOF JACKET

**SIZES:** S-4XL

- ✓ Elasticated inner cuffs // Wind proofing
- ✓ Storm flap // Wind proofing
- ✓ Taped seams // Waterproof and windproof
- ✓ Cuff tabs with Velcro® brand fasteners // Improved fit
- ✓ Fully adjustable, fold away hood with Velcro® // Safety and comfort
- ✓ Removable hood
- ✓ Radio loop attaching point on left breast
- ✓ Zipped Napoleon pocket on left breast with incorporated phone pocket // Safe and secure
- ✓ Inner pockets on right hand breast // Storage space
- ✓ Covered, zipped hand pockets // Keeps out debris and keeps contents secure
- ✓ No seams on shoulder // Improved durability and comfort whilst wearing a harness
- ✓ Mandarin collar // Maximum neck protection
- ✓ 50mm FR reflective tape // Increased durability
- ✓ 120gms lining // Lightweight
- ✓ Easy-Stretch™ side panels // Wear comfort
- ✓ Extended back // Protection when bending over
- ✓ SafetyICON™ // Visual EN standards
- ✓ ThermSAFE™ plastic FR zipper // CE Certified

#### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN ISO 20471: 2013 +A1:2016	IEC 61482-2: 2018	Compliant
A1, B1, C1, D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 1, A1	Class 3	Class 3/3/x	Type 6	APC 2 ELIM = 23cal/cm² ATPV = 25cal/cm²	Issue 1

#### BOX TEST

#### ARC RATING

#### FABRIC

7KA	23CAL
APC 2	ARC 2



\* Type 6 performance when worn in conjunction with 9622 salopettes

9622

# WATERPROOF SALOPETTES

SIZES: S-4XL



Removable and adjustable braces



Expandable ankle opening with zipper

## PRODUCT INFORMATION

**COLOUR:** HV Orange

**FABRIC SPECIFICATION:**  
**Outer Layer:** VXS+ Inherent Special Weave Fabric with Waterproof Membrane - 250gms

**Lining Layer:** VXS+ Inherent Woven Fabric - 120gms

**PRODUCT CARE:**



- ✓ 50mm FR reflective tape // Increased durability
- ✓ Combat pocket with phone pocket // Convenience and storage space
- ✓ 2 side pockets // Storage space
- ✓ Side access // For use as overtrousers
- ✓ 120gms lining // Lightweight
- ✓ Removable & adjustable suspenders
- ✓ Suspender back plate // Adjustable for comfort
- ✓ SafetyICON™ on arm // Visual EN Certified
- ✓ ThermSAFE™ plastic FR zipper // CE Certified
- ✓ Extra wide belt loop at rear // Prevents belt riding up

### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN ISO 20471: 2013 +A1:2016	IEC 61482-2: 2018	Compliant
A1, B1, C1, D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 1, A1	Class 1	Class 3/3/x	Type 6	APC2 ELIM=23cal/cm² ATPV=25cal/cm²	Issue 1

### BOX TEST



### ARC RATING



### FABRIC



\* Type 6 performance when worn in conjunction with 9422 jacket

9140

# UNLINED WATERPROOF JACKET

SIZES: S-4XL



NEW



9141

## HI-VIS ORANGE HOOD



- ✓ Mandarin collar // Maximum neck protection
- ✓ Adjustable cuffs // Close fit around wrists or gloves
- ✓ Two front pockets // Extra, secure storage
- ✓ Adjustable waist tabs // Ensures close fit
- ✓ Studs to attach waterproof hood // Protection from all weather
- ✓ Ability to attach padded liner jacket // For extra warmth
- ✓ Internal pockets // Secure storage

### PRODUCT INFORMATION

COLOUR: HV Orange

**FABRIC SPECIFICATION:**

ProGARM VXS+ FR Inherent Woven Fabric, 250gms

**PRODUCT CARE:**



EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2009	EN 61482-2: 2020	Compliant
A1, B1, C1 D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 1, A1	Class 3	Class 3/3/X	Type 6	APC 1 ELIM 9.3 cal/cm² ATPV 11 cal/cm²	Issue 2

BOX TEST



ARC RATING



FABRIC



\* Type 6 performance when worn in conjunction with 9144 dungarees





9144

# UNLINED WATERPROOF DUNGAREE

SIZES: S-4XL

- ✓ Elasticated waist
- ✓ 2 bands of FR heat applied reflective tape
- ✓ Press studs at leg hem to reduce width

## PRODUCT INFORMATION

COLOUR: HV Orange

**FABRIC SPECIFICATION:**  
ProGARM VXS+ FR Inherent  
Woven Fabric, 250gms

**PRODUCT CARE:**



## EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN ISO 11611: 2015	EN ISO 20471: 2013 +A1:2016	EN 343: 2019	EN 13034:2005 +A1:2009	EN 61482-2: 2020	Compliant
A1, B1, C1 D1, E1, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	Class 1, A1	Class 1	Class 3/3/X	Type 6	APC 1 ELIM 9.3 cal/cm² ATPV 11 cal/cm²	Issue 2

## BOX TEST



## ARC RATING



## FABRIC



\* Type 6 performance when worn in conjunction with 9140 jacket



**100%  
INHERENT**



# BASELAYERS COLLECTION

For full Product Matrix outlining EN Standards, see page 122

- ✓ **INHERENT PROTECTION**  
Flame resistant properties last the lifetime of the fabric and do not wash out
- ✓ **INSTANT EXTINGUISHING PROPERTY**  
Ultimate protection against flame and arc flash hazards
- ✓ **GREAT COMFORT**  
Breathable, soft to wear and fantastic to the touch
- ✓ **HIGHLY DURABLE**  
Colourfast with less than 3% washing shrinkage\*

\*Only applicable for woven fabrics



IMPROVED

## 8210 BASELAYER TOP

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IMPROVED

## 8220 BASELAYER LEGGINGS

Page 87



## 8100 BALACLAVA

Page 88



## 8300 SNOOD

Page 88



## 8400 HELMET LINER

Page 88



LADIES AVAILABLE  
8700F

## 8700 BOXER BRIEFS

Page 89



## 8770 FR BRA

Page 90



## 2105 SOCKS

Page 90



**IMPROVED**



Double stitching for longevity



Shoulder stitching pattern for improved ergonomics



Thumb hole in cuff for extra warmth



**8210**

# BASELAYER TOP

**SIZES:** S-4XL

**PRODUCT INFORMATION**

**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
VXS+ Inherent Jersey Fabric, Navy  
- 220gms

**PRODUCT CARE:**

- ✓ Garment layering benefits for extra protection
- ✓ Extra soft flame resistant fabric
- ✓ Contrast threads
- ✓ Elastic fabric to fit all shapes and sizes
- ✓ Thumb hole for extra hand protection
- ✓ Extended back
- ✓ L-shaped seams for wearer comfort
- ✓ Fully machine washable

**EN STANDARDS**

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020
A1, B1, C1	Pl. 5:2018 Pl. 3:2004 Charge Decay	ELIM = 3.6cal/cm²

**ARC RATING FABRIC**

**3.6CAL**

**ARC 1**





8220

# BASELAYER LEGGINGS

SIZES: S-4XL

### PRODUCT INFORMATION

**COLOUR:** Navy  
**FABRIC SPECIFICATION:**  
 VXS+ Inherent Jersey Fabric, Navy  
 - 220gms  
**PRODUCT CARE:**

- ✓ Extra soft fabric
- ✓ Contrast threads
- ✓ Fully machine washable

#### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018	EN 61482-2: 2020
A1, B1, C1	Pt. 5:2018 Pt. 3:2004 Charge Decay	ELIM = 3.6cal/cm²

#### ARC RATING FABRIC

3.6CAL

ARC 1

# 8100

## BALACLAVA

SIZES: One Size

Contrast threads



- ✓ Extra soft fabric
- ✓ Elastic fabric to fit all shapes and sizes

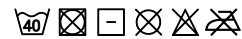
### PRODUCT INFORMATION

COLOUR: Navy

FABRIC SPECIFICATION:

VXS+ Inherent Jersey Fabric, Navy - 220gms

PRODUCT CARE:



### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018
A1, B1, C1	Pt. 5:2018 Pt. 3:2004 Charge Decay

# 8300

## SNOOD

SIZES: One Size

Elastic fabric to fit all shapes and sizes

Can be worn in multiple forms

Doublestitching for longevity



- ✓ Contrast threads
- ✓ Clear label with batch traceability
- ✓ Extra soft fabric

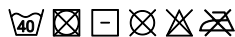
### PRODUCT INFORMATION

COLOUR: Navy

FABRIC SPECIFICATION:

VXS+ Inherent Jersey Fabric, Navy - 220gms

PRODUCT CARE:



### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018
A1, B1, C1	Pt. 5:2018 Pt. 3:2004 Charge Decay

# 8400

## HELMET LINER

SIZES: One Size



- ✓ Extra soft fabric
- ✓ Contrast threads
- ✓ Elastic fabric to fit all shapes and sizes

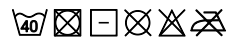
### PRODUCT INFORMATION

COLOUR: Navy

FABRIC SPECIFICATION:

VXS+ Inherent Jersey Fabric, Navy - 220gms

PRODUCT CARE:



### EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018
A1, B1, C1	Pt. 5:2018 Pt. 3:2004 Charge Decay

8700-M

## MENS BOXER BRIEFS

SIZES: S/M, L/XL, 2XL/3XL



Colour matched to other navy ProGARM® garments

8700-F

## LADIES BOXER BRIEFS

SIZES: S/M, L/XL, 2XL/3XL



- ✓ Mesh stripes on side of garment for increased breathability
- ✓ Very light fabric for increased comfort
- ✓ Elasticated waist band
- ✓ Seamless sides for additional comfort

### PRODUCT INFORMATION



**COLOUR:** Navy

**FABRIC SPECIFICATION:**  
ProGARM® VXS+ Inherent Knitted  
Fabric, Navy - 180gms

**PRODUCT CARE:**



### EN STANDARDS

 EN ISO 11612: 2015 A1, B1, C1	 EN 1149-5: 2018 Pt. 5:2018 Pt. 3:2004 Charge Decay
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8770

# FR BRA

SIZES: XS-2XL



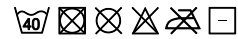
- ✓ Extra soft fabric
- ✓ Elastic fabric to fit all shapes and sizes

## PRODUCT INFORMATION

COLOUR: Black

FABRIC SPECIFICATION: 330gms

PRODUCT CARE:



## EN STANDARDS

EN ISO 11612: 2015	EN 1149-5: 2018
A1, B1, C1	Pl. 5:2018 Pl. 3:2004 Charge Decay

2105

# SOCKS

SIZES:

UK: 4-7

EU: 38/41 S/M

UK: 8-11

EU: 40/46 L/XL



- ✓ Extra soft fabric
- ✓ Contrast threads
- ✓ Elastic fabric to fit all shapes and sizes

## PRODUCT INFORMATION

COLOUR: Navy

PRODUCT CARE:



## EN STANDARDS

	ALSO TESTED TO:
EN ISO 11612: 2015	CONVECTIVE HEAT (ISO 9151:2016) - RESULT B1
Index 3	RADIANT HEAT (ISO 6942:2002 METHOD B) - RESULT C2

SUSTAINABLE COLLECTION

SINGLE COLOUR COLLECTION

TWO TONE COLOUR COLLECTION

HIVIS YELLOW COLLECTION

HIVIS ORANGE COLLECTION

BASELAYERS COLLECTION

HEAD PROTECTION PRODUCTS

OTHER ACCESSORIES





“

**Non-arc flash base layers can compromise the protection given by arc flash layers worn on top of them. Protect your team with our arc rated baselayers.**

”





# HEAD PROTECTION PRODUCTS

For full Product Matrix outlining EN Standards, see page 122

## ✓ INHERENT PROTECTION

Flame resistant properties last the lifetime of the fabric and do not wash out

## ✓ GREAT COMFORT

Breathable, soft to wear and fantastic to the touch

## ✓ INSTANT EXTINGUISHING PROPERTY

Ultimate protection against flame and arc flash hazards

## ✓ HIGHLY DURABLE

High quality products give excellent value for money





**2660 SAFETY  
HELMET CLASS 1  
& 2668 REPLACEMENT VISOR**

Page 94



**2696 SAFETY  
HELMET CLASS 2  
& 2697 REPLACEMENT VISOR**

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**2676 EAR MUFFS**

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**2674 HEAD HARNESS**

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**2664 CHIN STRAP**

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**2671 PHOTON  
HEADLIGHT**

Page 97



**2662 FRONT  
SWEATBAND**

Page 97



**2666 BACK  
SWEATBAND**

Page 97



**2682 ZONE EAR  
DEFENDER ADAPTORS**

Page 98



**2677 STORAGE BAG**

Page 98



**2672 VISOR  
CLEANING CLOTH**

Page 98



**9700 ARC4 HOOD**

Page 99

2660

# SAFETY HELMET CLASS 1

SIZES: One Size



2668

# REPLACEMENT VISOR

SIZES: One Size

Resistance to fogging (N)



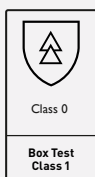
## HELMET

- ✓ Stroke absorption after conditioning in temperatures of (-30°C) and (0°C)
- ✓ Resistance to penetration after conditioning in temperatures of (-30°C) and (+50°C)
- ✓ Live working symbol (Two Triangles)
- ✓ Working temperature range (-30°C) and (+50°C)
- ✓ Wheel ratchet adjustment
- ✓ Adjustable head circumference from 53-63cm
- ✓ Two level height adjustment feature
- ✓ Electrical insulation (Class 0) 1000V AC, 1500V DC
- ✓ Protection against molten metal splash - symbol MM
- ✓ Protection against lateral deformations - symbol LD

## VISOR

- ✓ Level of protection 1.2 (transparent face shield)
- ✓ Level of protection 1.7 (dimmed face shield)
- ✓ Protection against droplets and splashes of liquids (3)
- ✓ Optical powers, light transmission factor, luminance factor of dispersed light Optical Class 1
- ✓ Resistance to medium energy impact (speed stroke up to 120m/s, mass of ball 0.86kg) (B)
- ✓ Protection against short circuit electric arc (8)
- ✓ Protection against thermal hazards of an electric arc, Class 1 (box test; 4kA/0.5s) VLT factor → 75% for class 0
- ✓ Protection against molten metal and hot solids (9)
- ✓ Resistance to surface damage by fine particles (K)

### EN STANDARDS



### PRODUCT INFORMATION

LIFETIME: 5 Years

SIZES: One Size

COLOUR: White (other colours available)

2696

# SAFETY HELMET CLASS 2

SIZES: One Size



2697

## REPLACEMENT VISOR

SIZES: One Size



### PRODUCT INFORMATION

**LIFETIME:** 5 Years

**SIZES:** One Size

**COLOUR:** White (Other Colours Available: Blue, Red, Green, Yellow, Orange, HV Yellow)

### HELMET

- ✓ Made of ABS
- ✓ Suitable for live working
- ✓ Smooth head circumference adjustment, range 53cm-63cm
- ✓ Helmet type (ANSI standard) - Type 1
- ✓ Lateral deformation resistance (EN Standard) - LD
- ✓ Molten metal splash resistance (EN Standard) - MM
- ✓ Resistance to penetration after conditioning in temperatures of -40°C to +60°C
- ✓ Electrical properties (EN standard) - 440 Vac
- ✓ Electrical Class O (1000 V AC/1500 V DC) according to EN 50365
- ✓ Electrical Class E (20kV AC) according to ANSI Z89.1.1
- ✓ Compliance with ANSI Z89.1; EN397; EN 50365 standards
- ✓ Approved to EN 50365 - Electrically insulating helmets for use on low voltage installation
- ✓ Approved to ANSI Z89.1 - Industrial head protection
- ✓ Improved visibility with reflective stickers
- ✓ Manufacturing date and utilisation date permanently marked

### FACE SHIELD

- ✓ Made from Polycarbonate
- ✓ Protection against high-speed particles - B
- ✓ Protection against droplets and splashes of liquids (3)
- ✓ Full face, chin and neck protection against thermal hazards caused by electric arc flash
- ✓ Resistance to fogging - N

- ✓ Protection against electric arc  
Class 2 - Box test 7kA/0.5s  
ATPV > 36cal/cm<sup>2</sup>
- ✓ Compliance with standards: EN 166; GS-ET-29; ASTM F2178
- ✓ Code number for ultra-violet filter (UV) - 2C-2
- ✓ Visible light transmittance (VLT) < 50% - Class 2
- ✓ Optical Class - 1
- ✓ Protection against molten metals and hot solids (9)
- ✓ Approved to ASTM F2178 - Standard specification for arc rated eye or face protective products
- ✓ Premium class anti-fog and anti-scratch protection
- ✓ Easy to wear with eyeglasses
- ✓ Incident energy - ATPV = 36cal /cm<sup>2</sup>

### CHIN STRAP

- ✓ 4-point strap recommended for working at height
- ✓ Quick, clasp - easy operation with protective gloves

### EN STANDARDS

- ✓ EN 397:2012 + A1:2012
- ✓ EN:50365:2002
- ✓ ANSI/ISEA Z89.1-2014
- ✓ GS-ET-29:2011-05
- ✓ ASTM F2178
- ✓ EN 166:2001

ARC RATING    BOX TEST





**2676**

## EAR MUFFS

**SIZES:** One Size

- ✓ Fit adjustable ear muffs for attachment to the ProGARM® helmet with soft PVC cushions
- ✓ SNR: 23dB. CE EN 352-3 Certified
- ✓ Suitable for all ProGARM® arc flash helmets

**2674**

## HEAD HARNESS

**SIZES:** One Size

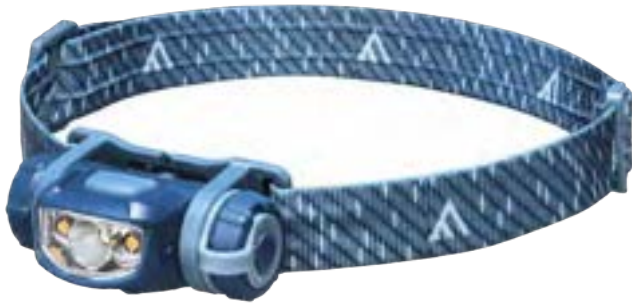
- ✓ Complete replacement 4-point harness with textile webbing, front and rear sweatbands and ratchet mechanism for practical and easy one-hand size adjustment

**2664**

## CHIN STRAP

**SIZES:** One Size

- ✓ Replacement chin strap with quick release fasteners
- ✓ Adjust and 4-point fitting



2671

## PHOTON HEADLIGHT

SIZES: One Size

- ✓ Waterproof and shock resistant headlight with adjustable head

2662

## FRONT SWEATBAND

SIZES: One Size

- ✓ Replacement soft velour and foam sweatband for comfort and moisture absorption
- ✓ Velcro® fastening

2666

## BACK SWEATBAND

SIZES: One Size

- ✓ Replacement soft velour and foam sweatband for comfort and moisture absorption
- ✓ Velcro® fastening



**2682**

## ZONE EAR DEFENDER ADAPTORS

**SIZES:** One Size

- ✓ Adaptors to fit the popular zone ear defenders to the arc helmets

**2677**

## STORAGE BAG

**SIZES:** One Size

- ✓ Storage bag to transport and protect ProGARM® arc flash helmets and other accessories

**2672**

## VISOR CLEANING CLOTH

**SIZES:** One Size

- ✓ Replacement soft cotton cloth to clean the visor
- ✓ For use with either of ProGARM® 2660, 2688 or 2690 arc flash helmets



Protection against electrical shock

Ultimate protection against flame & arc flash hazards

9700

# ARC4 HOOD

**SIZES:** One Size

## PRODUCT INFORMATION

**SIZES:** One Size

**COLOUR:** Navy

**PRODUCT CARE:**



## ASSEMBLY

The assembly of hood, visor and helmet has been tested to and certified to EN 166:2002, GS-ET-29:2011 (APC 2), and ASTM F2178-ATPV 47cal/cm<sup>2</sup>

## FABRIC

- ✓ VXS+ inherent special weave 395gms outer shell fabric with VXS+ inherent
- ✓ 200gms lining woven fabric, meeting the following standards:
- ✓ EN ISO 11612:2015 - A1, B1, C1, D2, E3, F1
- ✓ EN ISO 11611:2015 - Class 2, A1
- ✓ EN 1149-5:2008
- ✓ IEC 61482-2 : Open Arc ATPV = 47cal/cm<sup>2</sup> - Category 4
- ✓ IEC 61482-2 : Box Test = Class 2

## VISOR

Premium anti-fog coated highly transparent arc flash protective shield, colour grey, meeting the following standards:

- ✓ NFPA 70E, ASTM F2178 - 47cal/cm<sup>2</sup>
- ✓ ANSI Z87.1

## HELMET

Manufactured from high quality strong ABS material, up to 20% lighter than most other helmets, features Dry-Tech sweatband for maximum comfort, adjustable ratchet. Meeting the following standards:

- ✓ EN 397 - LD, MM, -40°C
- ✓ EN 50365
- ✓ ANSI/ISEA Class C

**VXS+**  
INHERENT™

100%

**100%  
INHERENT**

**ProGARM®**  
PROTECTING LIVES

 **ProGARM®**  
PROTECTING LIVES

# OTHER ACCESSORIES

For full Product Matrix outlining EN Standards, see page 122

✓ **INHERENT PROTECTION**

Flame resistant properties last the lifetime of the fabric and do not wash out

✓ **INSTANT EXTINGUISHING PROPERTY**

Ultimate protection against flame and arc flash hazards

✓ **GREAT COMFORT**

Breathable, soft to wear and fantastic to the touch

✓ **HIGHLY DURABLE**

High quality products give excellent value for money





## 2800 ARC COVER

Page 102



## 2700 ARC GLOVES

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## 2678 ARC GLOVES

Page 103



## 2240 FR KNEEPADS

Page 104



## 2400 FR BELT

Page 104



## 2000 KIT BAG

Page 104



## 8050 FR BEANIE HAT

Page 105



## 2600 FR BASEBALL CAP

Page 105



## 2205 WELDING APRON

Page 106



## 2200 WELDING GAITERS

Page 106



Double stitched ThermSAFE™ reflective tape for longevity

NEW

FR studs for attaching multiple covers

Anchor element to allow for safe setup of the arc cover

#### PRODUCT INFORMATION

**DIMENSIONS:** 68.5cm x 50cm

**COLOUR:** HV Orange

**TENSILE STRENGTH:** 750N/1300N

**TEAR RESISTANCE:** 30N/50N

**PRODUCT CARE:**



2800

# ARC COVER

**SIZES:** One Size

## FEATURES AND BENEFITS

- ✓ Two layer construction featuring padding
- ✓ 50cm FR industrial wash reflective tape
- ✓ FR studs for attaching multiple covers
- ✓ Includes anchor point to hold cover in place
- ✓ Water resistance fabric layer
- ✓ Machine washable

- ✓ Main fabric layer tested to EN 11612 and achieves A1, B1, C1, D2, E3, F1
- ✓ Main fabric layer tested to EN 11611 and achieves Class 2
- ✓ Main fabric passes test requirements within EN 20471 and RIS-3279
- ✓ Main fabric consists of a PU membrane, making it water resistant as per EN343
- ✓ Main fabric achieves EN1149-5 charge decay
- ✓ Main fabric tested to EN13034 for chemical repellency
- ✓ Main fabric tested to arc flash as a single layer and achieves EBT50 = 22cal/cm2 and APC 1

2700

# ARC GLOVES

SIZES: M (8), L (9), XL (10), XXL (11)

Suitable for high risk environments



- ✓ Category 2 Arc rated
- ✓ Level 5 (EN388:2003 withdrawn) - Level D TDM (EN388:2016 current)
- ✓ Excellent dry and wet grip
- ✓ Good abrasion resistance
- ✓ Excellent oil, grease, glue and chemical resistance
- ✓ Dexterity, touch, elasticity and hand conformity similar to natural rubber

## PRODUCT INFORMATION

SIZES: M (8), L (9), XL (10), XXL (11)

COLOUR: Khaki

### EN STANDARDS

EN 388:2016	EN 407:2004
3.X.4.3.D	4.2.3.2.2

### ARC RATING

Tested to EN 388:2003 Cut Level 5	<b>8.6CAL</b>
ANSI CUT F2992 Cut Level A4 Taber Abrasion Level 3	
<b>ARC 2</b>	

2678

# ARC GLOVES

SIZES: L (9), XL (10), XXL (11)

Winterized, waterproof and windproof



- ✓ ARC Rated 50cm<sup>2</sup> // High ARC resistant rating
- ✓ Cut resistant // Level 2 & 3\* according to ANSI/ISEA 105 Scale
- ✓ Flame resistant // Exceeds industry standards according to ASTM D6413
- ✓ Durability // 5 x more durable than traditional driver gloves

## PRODUCT INFORMATION

SIZES: L (9), XL (10), XXL (11)

COLOUR: Tan

CODE: 2678

### EN STANDARDS

EN 388:2003	EN 407:2004
3.2.4.2	4.3.4.3.X.X

### ARC RATING

<b>50CAL</b>
<b>ARC 4</b>

2240

# FR KNEEPADS

**SIZES:** One Size

Notched sides for maximum flexibility



Excellent breathability due to air holes in the foam

- ✓ EN ISO 11612 Certified // Optimum safety
- ✓ High impact absorption from high grade cellular rubber
- ✓ Wash tested to ISO 15797, 12 cycles // Perfect stability

## PRODUCT INFORMATION

**SIZES:** Width: 145mm x Length: 235mm  
**COLOUR:** Black  
**CODE:** 2240

## EN STANDARDS



2400



# FR BELT

**SIZES:** Waists 30"-38" (110cm)  
 Waists 40"-48" (130cm)

# KIT BAG

**SIZES:** One Size

Large capacity



Detachable adjustable shoulder strap

2000

- ✓ Zipped front pockets
- ✓ Zipped main compartment pocket
- ✓ Internal baseboard for rigidity
- ✓ Protective base feet for longer bag life

## PRODUCT INFORMATION

**SIZES:** 50cm x 25cm x 25cm (34 Litres)  
**COLOUR:** Black  
**CODE:** 2000



8050

## FR BEANIE HAT

SIZES: One Size

2600

## FR BASEBALL CAP

SIZES: One Size

### PRODUCT INFORMATION

SIZES: One Size

COLOUR: Navy, HV Yellow, HV Orange

PRODUCT CARE:



### EN STANDARDS



### BOX TEST





2205

# WELDING APRON

SIZES: One Size



**NEW**

### PRODUCT INFORMATION

SIZES: M/L, XL/2XL  
COLOUR: Silver

- ✓ Highly molten metal splash resistant fabric
- ✓ Adjustable cuff
- ✓ Removable and position adjustable lower apron
- ✓ Elastic fastening on the back

EN STANDARDS



2200

# WELDING GAITERS

SIZES: One Size



**NEW**

### PRODUCT INFORMATION

SIZES: XS/S - XL/2XL  
COLOUR: Silver

- ✓ Highly molten metal splash resistant fabric
- ✓ Elastic band below the foot
- ✓ Flame resistant Velcro® fastening on the back for adjustment

EN STANDARDS



SUSTAINABLE COLLECTION

SINGLE COLOUR COLLECTION

TWO TONE COLOUR COLLECTION

HIVIS YELLOW COLLECTION

HIVIS ORANGE COLLECTION

BASELAYERS COLLECTION

HEAD PROTECTION PRODUCTS

OTHER ACCESSORIES



“

**We have had these trousers for over 6 months and they are still going strong whereas before we had to replace trousers nearly every three weeks!**

”

# USEFUL INFORMATION

**MADE TO  
PERFORM...  
EVEN  
IN THE  
WASHING  
MACHINE**

## TRIED AND TESTED

It's essential to us that you have absolute confidence in your garments and know they'll continue to perform and keep your team safe, long after purchase.

To achieve EN certification, we extensively wash-test all our VXS+ fabrics before releasing them to market, paying close attention to colour fastness, how tear and tensile strength is affected, pulling resistance and dimensional change or shrinkage.

And, because our VXS+ fabrics are 100% inherent, they are arc flash and flame resistant for the life of the garment; protection doesn't wash out like it will with treated garments. In fact, we regularly test other garments and fabrics on the market to ensure our products remain at the forefront of arc flash protection.







## DON'T JUST TAKE OUR WORD FOR IT

Our garments have undergone wash trials at several commercial laundry companies on behalf of customers, so that they can see how our garments perform. In every case, our garments have passed those rigorous tests with flying colours.

Many of our fabrics have been certified to EN11612 after 50 industrial wash cycles, as specified in ISO 15797:2017. This involves being washed at 75°C and tunnel dried at 150°C for five minutes.

Many aramid fabrics are sensitive to high pH values in detergents and are more susceptible to colour change during industrial laundry.

However, our VXS+ fabric dye processes mean they're easier to wash and dry at home or through industrial laundry, extending the lifespan of the garment with low shrinkage and maintained hi-vis and brand standards.

INDUSTRIAL WASHING PROCEDURE ACCORDING TO ISO 15797		VXS+ 300W 300G/M2	ARAMID FABRIC
WASHING (75°C) AND TUMBLE DRYING (80°C)		COLOUR FASTNESS AFTER INDUSTRIAL WASHING (ISO 105 A02)	
INITIAL		5	5
25X		4-5	1-2
50X		3-4	1

Colour performance is measured on a level of 1 to 5 (with 5 being the maximum.)  
 Note: Garments should be washed according to the care label.

As part of our commitment to quality, ongoing performance and customer confidence, we rigorously test reflective tapes and components (such as zips and press studs) too.

If you intend to commercially wash your ProGARM® garments, we're happy to talk with your laundry partner so that we're all confident in the processes they're using and that your team remains protected.

## EN STANDARDS AROUND GARMENT WASHING METHODS

### EN ISO 6330: 2012 DOMESTIC

TEXTILES – DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

This international standard defines the washing and drying procedures for textiles being washed at home with consideration for wash loads, drying procedures, chemicals and detergents and many other variables. The standard was reviewed in 2012, after 10 years of amendments with industry influencers, to ensure the standard was based on global practices.

All our garments meet or exceed this standard, with many fabrics and accessories in our collection also tested to the Industrial Wash standard EN ISO15797 – see below.

### EN ISO15797: 2017 INDUSTRIAL

TEXTILES – INDUSTRIAL WASHING AND FINISHING PROCEDURES FOR TESTING OF WORKWEAR

This international standard defines the suitability of textiles for industrial washing, factoring in industrial washing machinery, larger wash loads, more demanding wash detergents, eight washing procedures (with hotter and tougher temperatures) and for two drying procedures including tunnel drying with temperatures up to 150°C. Some fabrics and accessories within our range meet this standard for industrial washing in accordance with the correct procedures. For more information, please ask your ProGARM® representative.

# IMPORTANT CHANGES REPLACE THE PPE DIRECTIVE WITH AN EU REGULATION

Past issues of our catalogue provide information relating to Personal Protective Equipment (PPE) and the European Directive that regulates it, 89/686/EU.

On 21 April 2016, the PPE Directive was converted to a regulation (completely effective from 21 April 2018) with increased scope for the type of products and processes covered. It also now applies to the whole supply chain and not just the product manufacturer.

This places stronger obligations on manufacturers to regulate and audit their supply chain, which is something we at ProGARM® had already been doing for years.

The definition of PPE has also been expanded to be "Equipment designed and manufactured to be worn or held by a person for protection against one or more risks to that person's health or safety."

Certificates for existing PPE items remain valid until 21 April 2023, but all new PPE items need to be certified under the new regulation from 21 April 2018. Category 3 PPE items need to be recertified before 21 April 2023.





# ALWAYS READ THE LABEL



## THE CE MARK

Category 2 and 3 PPE should always bear the CE mark, followed by a four-digit number. This shows the garment is Type Approved by a notified body and complies with the requirements of either the PPE Directive (while still valid), or the new PPE Regulation (EU) 2016/425.

All our products comply with the requirements of the PPE Directive or with the new PPE Regulation as applicable.

## CE CERTIFIED GARMENTS COMPARED WITH 'CE CERTIFIED FABRICS'

When purchasing any arc flash or other protective clothing, always check that the finished garment has been tested.

Any garment correctly certified and CE marked should also display the relevant visual symbol for the standard with which it complies, such as the arc flash EN Standard symbol.

Where the fabric has been tested, but not the finished garment, the relevant EN Standard symbols will be missing from the garment label and replaced with text detailing the standard to which only the fabric has been tested.

All our garments are fully certified to the standards displayed on them. (An example care label is shown below.)

Style Number

↕

CE Marking

← **CE 0338**

**9750**

**ProGARM®**

Class 2, A1	A1, B1, C2, D3, E3, F1	Pt. 5:2018 Pt. 3:2004 Charge Decay	APC 2 ELIM=42cal/cm²	Class 3	Class 3/3/X	Type 6

EN Standards to which the garment meets

Wash Care Instructions

Fabric Compositions

Clear Washing Care Symbols

SIZE **M**

CL-Version 1  
Edition 1  
Made in EU

**Aftercare:** • Do not bleach, do not boil, do not use soap based products - only detergents.  
• Company will not accept liability for garments where care labels have been ignored, neglected, defaced or removed.  
• Always store in clean, dry conditions.

**Fabric Composition:**  
Outer Layer: 50% Polyester/ 27% VXS+ Modacrylic / 22% Cotton/ 1% Antistatic - PU Laminated  
Lining Layer : 55% VXS+ Modacrylic / 44% Cotton/ 1 % Antistatic  
Cuff: 45% Cotton/ 36% VXS+ Modacrylic / 10% Elastomer/ 9% Viscose

**This Jacket must be worn with ProGARM 9880 Salopette to offer Full Protection.**

**Wash Instructions:**

S1\_6101/6104

↕

Batch Number For Traceability

↕

Garment Edition Number

# PROGARM RECYCLE

## HELPING YOU REDUCE LANDFILL WASTE

### TAKING OUR RESPONSIBILITY SERIOUSLY

Reducing the impact that we, and our industry have on the planet is a priority for us. We believe that not only should we take the hard decisions to make the best choices for the environment, but that it is our responsibility to enable our customers to make better choices too.

**ProGARM RECYCLE** is our initiative to prevent the addition of ProGARM to the 350.000 tonnes of textiles that go to landfill in the UK every year, by offering every single one of our UK customers the ability to return their PPE to us at the end of its life or reprocessing.

Our customers range from small one location teams to huge multisite corporations, and we have ensured that **ProGARM RECYCLE** has a returns and collection ability that scales per individual requirement. From manual ad hoc box returns to monthly scheduled recycle bin collection across multiple sites, and service charges scale accordingly.

To allow us to offer this sustainability enhancing service, we have partnered with an industry-leading textiles recycling company who are committed to sending zero textiles waste to landfill. Our partner is certificated to ISO9001 (Quality), ISO14001 (Environmental) and ISO45001 (H&S), this compliments our own ISO9001, 14001 & 27001 certificate.

Safety and security are paramount to us, we are aware of the potential dangers of branded workwear items being accessible to the wrong people, putting vulnerable members of the public and brand reputations at risk. Our recycle partner works in accordance with BS EN: 15713-2009 Secure Destruction of Confidential Material Code of Practice ensuring all branded items are shredded and de-badged the moment they hit site safeguarding any vulnerabilities.

Not only can we recycle end of life products helping our customers prevent landfill, we can also issue a certificate to evidence confidential destruction, waste transfer notice and an environmental management information document (Supplied Monthly or Yearly) that details the weight recycled or saved from landfill to help you to evidence your environmental goals, this can be given as a per site breakdown if you have more than one collection site.



- ✓ Zero PPE Garments to landfill
- ✓ Reducing the risk of ground contamination
- ✓ 3 Service options to suit your needs
- ✓ Collections to suit you
- ✓ Evidence your sustainability efforts
- ✓ Secure disposal of branded workwear
- ✓ Helping you reach your ESG goals

To find out more about **ProGARM RECYCLE** and service charges please contact us  
**+44 (0) 1482 679 600 - INFO@PROGARM.COM**

# BRANDING AND GARMENT ALTERATIONS



## BRANDING

We recommend using flame resistant heat transfers or flame resistant embroidery threads for branding on any of our arc flash and flame resistant garments to ensure compliance with the original CE certification. We also take care when adding branding to hi-vis garments, that large logos don't reduce the surface area of the background material as specified in EN20471.



## FLAME RESISTANT HEAT TRANSFERS

Heat applied transfers contain a flame resistant component and have been tested and certified to the EN11612 Heat & Flame European Standard. Transfers are easy to apply using an industrial heat press and can be printed in any Pantone® colour for exact replication of your company logo or brand. We can pre-order bulk quantity transfers and apply them to your garments quickly before dispatch.

## FR EMBROIDERY THREADS

Standard embroidery threads are usually polyester blends which burn, melt and drip when exposed to flame, so using this type of thread on embroidered designs poses a serious risk. We always use military grade meta-aramid flame resistant threads when applying emblems to any of our garments.

## GARMENT ALTERATIONS

All our products are stocked for fast delivery, but we can make alterations providing they don't compromise the conformity of the garment. We can shorten and re-hem trousers or some coveralls for example. For special sizes, or more detailed alterations, please contact our Customer Service Team to discuss how we can help and the typical delivery times and minimum order quantities.

# HOW PROGARM® PROTECTS YOUR TEAM AND EN STANDARDS

Our protective clothing is designed specifically for working in environments where heat, flame, low light, open arc, chemicals or static electricity are all potential hazards.

To ensure our garments protect in these environments, each item is certified and manufactured to a European Standard. These standards ensure that the design, materials used and performance after washing are maintained and reach minimum requirements.

## ALWAYS AHEAD OF THE GAME

When new - often more stringent - EN Standards are made available, we ensure our garments are certified to meet or exceed these requirements.

## WE'RE HERE TO HELP

Read on for information about the most relevant EN Standards that relate to the garments in our collection, together with some explanatory notes. We've done our best to ensure the information in this section is correct at the time of going to print - May 2021. For the exact wording and terminology of the standard, please refer to the relevant British Standards Institute (BSI) document available to purchase from the BSI or other sellers online.

To discuss the implications of these EN Standards for your business, or for an assessment of your current garments, please get in touch to speak to a specialist in your sector.







# RIS-3279-TOM



# EN1149-5

## PROTECTIVE CLOTHING WITH ELECTROSTATIC PROPERTIES

GO/RT 3279 was a high visibility standard that only applied to the rail industry in the UK, as opposed to the EU-wide nature of other EN Standards. It has now been officially replaced by a new Rail Industry Standard (RIS-3279-TOM) which reproduces the content of GO/RT 3279 in its entirety.

The aim of GO/RT 3279 and the new RIS-3279-TOM is to ensure that rail workers on or near the tracks are sufficiently visible to trains approaching at speed or any other traffic.

Stated in the standard is that: 'The colour specific requirements within this standard conform to the range specified within BS EN 20471 clause 5.1.2.'. In order to confine this to a specific orange colour and to prevent the selection of a colour at the red end of the spectrum, the precise chromaticity co-ordinates for the colour are specified as: Fluorescent orange, X:0.588, Y:0.371, with a luminance factor of at least 0.4. The accepted tolerance in colour is laid out in EN 20471. There is no tolerance for the luminance factor.

Also stipulated in the RIS 3279 standard is the need for retro-reflective materials, with photometric and physical performance aligned with EN 20471.

Mentioned in the RIS 3279 standard is the accepted use of a mini vest where the nature of the work being carried out will not obscure the high visibility clothing, and thus reduce the surface area that is visible. The same applies to company logos; these are permitted where they do not compromise the surface area of background colour, and compensation may have to be made for this.

## ABOUT THIS EN STANDARD

This is the European Standard for garments that protect against electrostatic discharge in areas where there is a risk of explosion (ATEX Environments) such as in petrochemical refineries or when fuel is being delivered.

Annex II art 2.3 of the ATEX Directive 99/92/CE concerning the protection of workers likely to be exposed to the risk of explosive atmospheres says: "Workers must be provided with appropriate working clothing consisting of materials which do not give rise to electrical discharges that can ignite explosive atmospheres." As a consequence, the outer fabrics of these garments are made from antistatic materials and components.

Under the scope of the Regulation (EU) 2016/425, a series of EN Standards have been developed relating to electrostatic properties. Key parts of these standards that relate to the protective garments we produce are noted here:

## EN1149-5 PERFORMANCE REQUIREMENTS

Antistatic PPE is certified to EN1149-5 as this standard covers the performance requirements of the garments and refers to the choice of two different methods (EN1149-1 or EN1149-3).

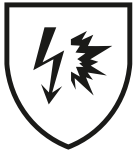
## EN1149-1 MEASUREMENTS OF SURFACE RESISTIVITY

This test method is most appropriate for materials for which the electrostatic dissipative behaviour is based on surface conductivity. That is materials containing surface conductive yarns or a homogeneous conductive outside PVC coating layer. This method is not appropriate for core conductive fibres.

## EN1149-3 MEASUREMENTS OF CHARGE DECAY

This test method is referenced as the most relevant for materials for which the electrostatic dissipative behaviour is based on core conducting fibres but can also be used for surface conducting materials.

In the EN1149 series there is also EN 1149-2 (measurement of electrical resistance through a material; the vertical resistance) which is also used as a test method in EN ISO 11611 (welders' clothing) and which is also mentioned in Annex H of EN469:2005. A further part of EN1149 is still under development which will cover the testing of the full garment – this part of the standard will be EN1149-4.



# EN 61482-2

## PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC

We produce garments that protect workers against the thermal hazards of an electric arc. Each garment style is carefully designed to offer the maximum protection whilst ensuring comfort and outstanding durability. As arc flash garments come under the requirements of Category 3 Protective Clothing, these garments are manufactured under Module D Quality Control Procedures.

### WHAT IS AN ELECTRIC ARC?

Electric arc, and the arc flash created, is an extremely dangerous and perhaps the least understood electrical hazard. They occur as a result of extreme discharges of voltage or electrical current from equipment including switchgear, transformers and heavy electrical equipment. The arc generates a high level of energy for a very short span of time (up to 1 second). The intense heat can create temperatures of more than 19,000°C and it also produces electric shock, extraordinary force and large quantities of thermal radiant energy.

### WHAT IS THE RISK?

Anywhere your employees are working with electricity, an arc flash can occur. To ensure adequate protection, you must be able to determine the maximum energy of default circuits in any electrical installation. The risks of an electric arc exposure are significant and potentially fatal through:

- Electrocution
- Extremely high levels of radiant heat
- Secondary fire or explosions (ignition to the surroundings)
- 1st, 2nd or 3rd degree burns – 3rd degree burns cause permanent damage

### BS EN 61482-2:2020 PERFORMANCE AND DESIGN REQUIREMENTS

The standard outlines the performance requirements for materials and design requirements for garments, as well as the external marking of garments and other user information that should be made available to wearers. All ProGARM® arc flash protective garments carry prominent external markings to indicate that is the case.

The standard also specifies the requirements and test methods applicable to materials and garments for protective clothing worn by electrical workers to protect them against the thermal hazards of electric arc. There are two main ways to test a garment's ability to protect a worker from the dangers of an arc flash.

### BS EN IEC 61482-1-1:2019 'OPEN ARC' TEST METHOD

The 'Open Arc' test method (ATPV test and garment test) replaces IEC 61482-1:2002. The 'Open Arc' test method is the same as the original North American method for measuring the Arc Thermal Performance Value (ATPV), as used in ASTM F1959. Materials or assemblies are given an ELIM, ATPV or EBT value, expressed in kilojoules per square metre (kJ/M<sup>2</sup>), which can be converted into the familiar Cal/cm<sup>2</sup>.

### BS EN 61482-1-2:2014 'BOX ARC' TEST METHOD

The 'Box Arc' test method (Fabric classification and garment test) 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 (7kA) (APC 1 or APC 2 if certified to BS EN 61482-2:2020). During this test, a fabric sample is exposed to an electrical arc produced by a 4kA or 7kA short circuit. In the test, the arc does not last any longer than 500ms. The amount of heat transmitted through the sample is measured during and after the test. On the basis of the resulting data and a Stoll curve, the length of time it would take to cause the onset of 2nd degree burns is determined. Samples are also assessed for after-flaming, hole formation, melting.

### GARMENT TESTING AND FABRIC TESTING

It is important to note that not only should the fabric be tested to make sure it conforms to the Standard, but also the complete garment or garment assembly. The garment test is not testing for energetic value but to ensure the garment structure remains intact after the arc exposure and that components such as zips, press studs and buttons are still functional and don't cause further injury to the wearer by melting or heat transfer.

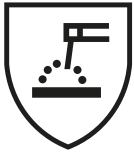
### LIMITATIONS OF USE

With arc protection, the environmental conditions and the risks at the working site need to be considered. For example, a test under the standard using a 4kA test current (Class 1) subjects the garment/fabric to an incident energy of 135kJ/m<sup>2</sup> +/-56 KJ/m<sup>2</sup> (3.2 +/-1.2 Cal/cm<sup>2</sup>) over a 500ms exposure at 18-28°C and at 45-75% relative humidity (RH). If the working environment deviates from this temperature/humidity range, the level of protection may be reduced. Exposure to higher incident energies or longer duration arcs may also result in the garment providing insufficient protection. Therefore it's essential to conduct comprehensive risk assessments before live working.

For full body protection, the protective clothing needs to be worn fully fastened and closed and other suitable protective equipment (e.g. helmet with protective face screen, protective gloves and boots) should be used. No garments, such as shirts, undergarments or underwear, should be used which melt under arc exposures – e.g. those made of polyamide, polyester or acrylic fibres. For maximum protection against arc flash exposure, multiple flame-resistant garments should be worn in layers.

### REPAIR INSTRUCTIONS

**WARNING:** tears to arc flash certified garments should not be repaired by the user. A flammable (not flame proof) thread or non-heat-proof element likely to melt would be extremely dangerous in the event of exposure to flame. Should there be any need to repair a garment, please contact us for guidance and safety advice.



# EN ISO 11611

## PROTECTIVE CLOTHING FOR WELDING AND ALLIED PROCESSES

All of our safety garments are certified in accordance with this EN Standard and are designed to protect workers in welding processes. Parts of this EN Standard are also used in conjunction with the arc flash Standard for which ProGARM® has an enviable reputation for high performance garments.

### ABOUT THIS EN STANDARD

Within this EN Standard is a series of tests - the most important of which are described in ISO 6942, ISO 9150, ISO 15025 and EN 1149-2.

ISO 11611 has two classes - if the fabric passes all the tests, it is designated as Class 1. If the fabric also receives a Class 2 rating for the ISO 6942 and ISO 9150 tests, it is designated as Class 2.

**CLASS 1** - Lower Hazard Welding Applications.  
**CLASS 2** - Higher Hazard Welding Applications.

### EXPLAINING THE DIFFERENT TESTS

**ISO 6942:** This is a test method for assessing fabrics and fabric combinations exposed to radiant heat. In this test, a fabric sample is exposed to radiant heat (infrared rays). The temperature on the reverse (unexposed) side of the sample is registered using a calorimeter. The length of time the sample can remain exposed before the temperature on the unexposed side rises by 24°C is measured. This test is also used for EN 531C and has two different classes as follows:

**CLASS 1** - Temperature increase occurs after more than 7 seconds.  
**CLASS 2** - Temperature increase occurs after more than 16 seconds.

**ISO 9150:** Determines the behaviour of fabrics when exposed to small spatters of molten metal. In this test, droplets of molten metal are spattered on a vertically suspended fabric sample. The number of droplets it takes to cause an increase in temperature of 40°C on the reverse side of the sample is determined. This test also has two classes as follows:

**CLASS 1** more than 15 droplets of molten metal.  
**CLASS 2** more than 25 droplets of molten metal.

**ISO 15025:** This is the test method for limited flame spread. This test involves applying a flame to a fabric sample for 10 seconds. To pass the test, the after flame and smoulder times, together with the formation of holes, must be within the tolerances set in the standard. This test is also used for EN 531A.

The application of a flame can take place in two ways: in procedure A (leads to Class A1), the flame is applied horizontally (similarly to EN 470 and EN 531) in procedure B (leads to Class A2), the flame is applied laterally.

**EN 1149-2:** This is a test method for measuring the electrical resistance of a fabric sample and determining whether an electrical charge passes through the sample from the outside to the inside. For further information on this EN Standard please refer to the EN1149 section earlier in this section.

## TYPICAL EXAMPLES OF PROCESSES AND WHICH CLASS OF GARMENT MIGHT BE MOST RELEVANT

### CRITERIA FOR CHOICE BASED ON THE TYPE OF PROCESS

#### CLASS 1

Manual welding operations during which small amounts of spatter or droplets of molten metal are formed such as:

- Gas welding
- TIG welding
- MIG welding
- Micro plasma welding
- Soldering brass
- Spot welding
- Shielded electrode MMA welding

#### CLASS 2

Manual welding operations during which large amounts of spatter or droplets of molten metal are formed such as:

- MMA welding (using alkaline or cellulose electrodes)
- MAG welding (with CO<sub>2</sub> or mixed gasses)
- MIG (high-voltage) welding
- Flux-cored arc welding
- Plasma cutting
- Gouging
- Oxygen cutting
- Thermal spraying

### CRITERIA FOR CHOICE BASED ON THE TYPE OF WORK

#### CLASS 1

Operating machines such as:

- Oxygen cutting machines
- Plasma cutting machines
- Resistance pressure welding machines
- Thermal spraying
- Welding tables

#### CLASS 2

Operating machines such as:

- In enclosed spaces
- When welding/cutting operations require reaching above head height or take place in comparable difficult positions



# EN ISO 20471

## HIGH VISIBILITY CLOTHING



# EN ISO 14116

## PROTECTION AGAINST HEAT & FLAME, LIMITED FLAME SPREAD

This international standard specifies the requirements for clothing designed to emphasise the wearer's presence visibly in order to make the wearer more noticeable in hazardous situations during the day and at night (illumination in car headlights). It has replaced EN 471 which has now been withdrawn.

### THE CONTENTS OF THIS EN STANDARD

This standard's icon is a safety vest placed adjacent to a number which represents the design classification of the garment. The classification is 1, 2 or 3 where Class 1 provides the minimal level of visibility and class 3 provides the highest level prescribed by the standard.

### THE CLASSIFICATION

The classification is derived from the number of square metres of fluorescent fabric and the number of square metres of reflective strip incorporated in a garment.

	CLASS 1	CLASS 2	CLASS 3
FLUORESCENT MATERIAL	0,14	0,50	0,80
REFLECTIVE MATERIAL	0,10	0,13	0,20
COMBINED MATERIAL	0,20		

EN ISO 20471 provides the following guidance on risk factors and selection of clothing:

RISK LEVEL	FACTORS RELATED TO THE RISK LEVEL		RISK LEVEL
	VEHICLE SPEED	TYPE OF ROAD USER	
HIGH RISK ISO 20471 CLASS 3	> 60 km/hr	PASSIVE	High Visibility  Day & Night Visibility 3600 (visible from all sides) Design for form recognition Encircling the torso Quantity and Quality for day & night
HIGH RISK ISO 20471 CLASS 2	≤ 60 km/hr	PASSIVE	
HIGH RISK ISO 20471 CLASS 1	≤ 30 km/hr	PASSIVE	

The fluorescent fabric must encircle the torso, sleeves and trouser legs with at least 40%, or the minimum required area, of fluorescent material present on the front of the garment (and on the back of the garment). The reflective strips must be 50mm wide and the space between 2 reflective strips must be at least 50mm. The distance from 'the end' of the garment (e.g. the end of a trouser leg) to the reflective strip must also be at least 50mm. Reflective strips can be positioned in a variety of different ways; Class 3 garments must cover the wearer's torso and have either reflective strips about the sleeves or full length trouser legs.

This standard replaces the withdrawn EN533. While the standard does deal with the issue of flame resistance to some extent, it is arguably more suited to outerwear that would usually be worn over other protective garments. For this reason ProGARM® has opted to meet EN11612 which offers a higher standard of protection.

Clothing manufactured to this standard is made from flame retardant materials so that if the material comes into contact with a flame, it will only continue to burn for a limited amount of time. After removal from the flame, the material will stop burning. Clothing in this category should not be worn to protect against convective heat, radiant heat, molten metal or similar higher risk hazards.

### THE CONTENTS OF THIS STANDARD

For fabrics, this standard only has a flame spread test and the test results are given as index values as detailed below. The number of wash cycles and the washing method used to achieve the stated index value are also given under the EN Standard pictogram. E.g. "25H" indicates 25 domestic wash cycles (this can also be indicated as "I" for industrial wash cycles or "C" for chemical cleaning such as Dry Cleaning). The "60" represents the laboratory washing temperature in degrees Celsius. There are also requirements in this standard for the seam strength to be tested and for tests to ensure the flame retardant properties of the garment's seams meet the requirements.

### DIFFERENT TESTS, CODES

**Index 1:** No flaming to the top or side edge, no flaming debris and no afterglow shall spread from the carbonised area to the undamaged area. Hole formation is possible under this index. These fabrics should not be worn next to the skin. An example of a fabric in this category would be an FR polyester which will meet the requirements but will always form a hole.

**Index 2:** No flaming to the top or side edge, no flaming debris and no afterglow shall spread from the carbonised area to the undamaged area. No hole formation possible with this index. The requirements are the same as index 3 but no maximum afterflame time is specified.

**Index 3:** Requirements are the same as index 2, but the afterflame time of each individual specimen should not exceed 2 seconds.





# EN ISO 11612

## CLOTHING TO PROTECT AGAINST HEAT & FLAME

ProGARM® produces garments to protect wearers against heat & flame in accordance with this European Standard. This standard replaces the withdrawn EN531 standard and shows our continuous commitment to offer garments certified to the latest specifications.

### ABOUT THIS EN STANDARD

The requirements apply to clothing intended for a wide range of applications which offer limited flame spread and provide protection against various hazards including radiant heat, convective heat, contact heat and splatters of molten metal. There are several fabric tests within this EN Standard and the results of the tests are represented by the pre-fix letters A, B, C, D, E and F. A number after these letters indicates the performance of the fabric within this test. If a (0) is shown, then the fabric has not been tested or does not achieve the lowest value attainable with the test.

### FABRIC REQUIREMENTS

General Requirement: The mechanical strength and heat resistance at a temperature of 180°C: the material shall not ignite or melt and shall not shrink by more than 5%.

### EXPLAINING THE DIFFERENT TESTS AND CODES

#### LETTER A (EN 15025)

This test consists of applying a flame to a fabric sample for 10 seconds. To pass the test, the afterflame and smoulder times and formation of holes must be within the tolerances within the standard. The application of a flame can take place in two ways:

#### CODE LETTER A1 SURFACE IGNITION, ISO15025 A

**Procedure A** (leads to Class A1), the flame is applied horizontally (similarly to EN470 and EN531).

- No specimen shall permit any part of the lowest boundary of any flame to reach the upper or either vertical edges
- No specimen shall give hole formation of 5mm or greater in any direction, except for an inter-lining that is used for specific protection other than heat and flame protection
- No specimen shall give flaming or molten debris
- The mean value of afterflame time shall be < 2s
- The mean value of afterglow time shall be < 2s

#### CODE LETTER A1 EDGE IGNITION, ISO15025 B

**Procedure B** (leads to Class A2), the flame is applied laterally.

- No specimen shall permit any part of the lowest boundary of any flame to reach the upper or either vertical edges
- No specimen shall give flaming or molten debris
- The mean value of afterflame time shall be < 2s
- The mean value of afterglow time shall be < 2s

#### LETTER B (ISO 9151)

Convective Heat: determination of the heat transmission when exposed to flames. The sample is held above the flame and the rise in temperature on the topside of the sample is measured with a calorimeter. The length of time the sample can remain exposed before its temperature rises by 24 °C is determined.

B1: 4 < 10 seconds, B2: 10 < 20 seconds, B3: 21 seconds and longer.

#### LETTER C (ISO 6942)

Exposure to radiant heat: In this test, a fabric sample is exposed to radiant heat (infrared rays). The temperature on the reverse (unexposed) side of the sample is registered using a calorimeter. Subsequently, the length of time the sample can remain exposed before its temperature rises by 24°C is measured. The test procedure is the same as ISO 11611, but the classification is different:

C1: 7 < 20 seconds, C2: 20 < 50 seconds, C3: 50 < 95 seconds, C4: 95 seconds and longer.

#### LETTER D AND E (ISO 9185)

D = Aluminium | E = Molten Iron.

Determining the level of protection against splatters of molten metal. A membrane (with similar properties to human skin) is attached to the reverse of the fabric sample sequentially rising quantities of molten metal (aluminium or iron as applicable) are splashed on the sample. The quantity of molten metal which deforms the membrane is determined.

The classification for molten aluminium is:

D1: 100 < 200 grams, D2: 200 < 350 grams, D3: 350 grams and more

The classification for molten iron is:

E1: 60 < 120 grams, E2: 120 < 200 grams, E3: 200 grams and more.

#### LETTER F (ISO 12127)

This is a new test to establish a value for contact heat.

The classification in this respect:

F1: 5 < 10 seconds, F2: 10 < 15 seconds, F3: 15 seconds and longer.



# EN 13034

## PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS

ProGARM® produces garments to protect wearers against liquid chemicals in accordance with this European Standard. These garments are suitable for use in environments where there may be a risk of chemical splashes but where a total chemical barrier is not required - \*PB = Partial Body Protection.

The EN 13034 standard specifies the requirements and test methods for Type 6 chemical protection suits for both one-off and multiple use applications. For other related accessories, such as gloves and boots, which are not an integral part of the suit, please refer to the corresponding product standards (see Product Matrix on page 102). Clothing in this category provides limited protection against small splatters or fumes of liquid chemicals. It is usually made of water-repellent, but not completely waterproof materials. Within the ProGARM® range of products this is often achieved by the use of chemical coatings such as Teflon®, which repel the contaminants and in order to preserve these properties within the fabric of the garment, special washing and drying instructions should be adhered to.

### ABOUT THIS EN STANDARD

The fabric is tested in various ways to determine its tensile strength and resistance to chemicals. In these tests, four different solutions of chemicals (Sulphuric Acid H<sub>2</sub>SO<sub>4</sub> 30%, Sodium Hydroxide NaOH 30%, 0-xylene undiluted and 1-butanol undiluted) are applied to a fabric sample and the quantities of liquid that drip off and penetrate the fabric are measured and analysed must be within the tolerances set within the standard.

One finished product (of each quality) must also be analysed in a 'mannequin' test. During this spray test, the wearer must perform 7 movements (these are described in the standard) and the permeability of the garment to liquid chemicals is subsequently determined. The classes attained in the various tests must be clearly listed in the user instructions for the garment.

Where certified to EN 13034 ProGARM® garments are Type 6 garments and must undergo the spray test in order to display the EN pictogram for the standard on the user information and garment Care Label. In some of our garments it should be noted that in some instances the fabric has been tested but the garment and seams have not. In this case, this is clearly marked on the Care Label and the EN pictogram is not shown. Other requirements within the EN 13034 standard include tests for water resistance, tear strength, tensile strength and seam strength. If 2 piece garments are to be worn such as a trouser and jacket combination it is important to ensure that both garments have been certified as a 'set' for the specified level of protection.

If chemicals are splashed onto a garment, the wearer should immediately move away from the affected area and carefully remove the garment, ensuring that the chemicals or liquids do not come into contact with any part of the skin. The garment must then be cleaned and assessed for future use or taken out of use.



# EN 342

## PROTECTION AGAINST COLD

This EN standard specifies the requirements and test methods for garments and clothing combinations designed to protect the wearer in a cold environment (characterised by a combination of humidity, wind and air temperature lower than -5 °C). The standard does not contain any specific requirements for head, hand or foot protection.

### ABOUT THIS EN STANDARD

This standard's pictogram is an ice-crystal placed alongside three figures that represent the insulation (Clo), air permeability (X) and, if applicable, the water vapour resistance (Y) values. The precise meaning of these values is explained below.

### THE CLO, X AND Y VALUES

The Clo value indicates a garment's insulation properties and is a measurement of how long a person can work at a specific temperature when wearing this clothing. It is not a specific class, but can be any value. The table below shows the significance of the Clo value.

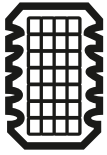
CLO	LIGHT ACTIVITY 115 W/M <sup>2</sup>		AVERAGE ACTIVITY 170 W/M <sup>2</sup>	
	8H/°C	1H/°C	8H/°C	1H/°C
2.0	1	-23	-18	-31
2.5	-6	-33	-29	-44
3.0	-13	-43	-39	-57

The X value indicates a garment's air permeability. The X value has 3 classes (1 to 3). Class 1 garments have the highest air permeability and Class 3 the least. The air permeability is a wind proofing measurement, Class 1 is therefore the least windproof and Class 3 the most.

The Y value indicates a garment's water vapour resistance. The Y value also has 3 classes (1 to 3). Class 1 garments have the lowest water vapour resistance and Class 3 garments the highest.

A more recent version (2004) of EN 342 is now available.

The new version has the following values: Icler / Icle, this is the equivalent of the Clo value and two Y values. The first Y value indicates the air permeability; it is assessed in a different way to the old EN 342, but is still given as Class 1 to 3. The second Y value indicates the garment's waterproofing. Clothing that complies with EN 342 does not necessarily have to be waterproof. This value can therefore sometimes be omitted. This value has 2 classes - 1 and 2. Class 1 is the least waterproof and Class 2 the most. If a garment is waterproof, its breathability must also be tested.



## EN 14404

### KNEE PROTECTION

Personal protective equipment. Knee protectors for work in the kneeling position.

ProGARM® produces safety garments that are certified in accordance with the EN 14404 Type 2 standard. This EN Standard relates to trousers and coveralls which offer kneepad pockets to protect the wearer when kneeling.

### ABOUT THIS EN STANDARD

EN 14404 only applies in combination with certified kneepads and a garment that has been assessed. All ProGARM® workwear garments with knee pockets comply with EN 14404 and have been assessed accordingly by a notified body.

The measurements prescribed for kneepads depend on the size of the garment in which they are used. The ProGARM® Gel Foam kneepads is our recommended kneepad for use in our garments to ensure the pad fits the pocket and offers protection for wearers from short to long leg lengths.

There are three properties of knee protectors that are tested - these are Penetration Resistance, Force Distribution and Shock Absorption. Two levels of protection can be provided. The ProGARM® Gel Foam Kneepad has been tested according to and meets the requirements for EN14404 Level 1.

**Level 1:** This level requires kneepads to provide protection on a surface on which the wearer will not generally risk injury from lying objects more than 1cm high. Penetration resistance of at least 100 N.

**Level 2:** This level requires kneepads to be able to withstand use under heavy conditions, such as kneeling on stones in mines and quarries. Penetration resistance of at least 250 N.



## EN 343

### PROTECTIVE AGAINST RAIN

This EN Standard specifies the requirements and test methods for materials and the seams of protective clothing that has been designed to give protection against precipitation (i.e. rain, snow), mist and ground moisture. There is also an optional Rain-tower test, EN 14360 to assess the waterproofness of the whole garment.

The pictogram will have an R if this test has been conducted and an X if it hasn't.

### ABOUT THIS EN STANDARD

This standard's icon shows an umbrella placed under two numbers that represent the X and Y values. The X value indicates the waterproofness and the Y value indicates the water vapour permeability (the garment's breathability).

This standard falls within the scope of 'self-certification'. This means that manufacturers are allowed to certify their own products, which therefore do not need to be assessed by an independent notified body. This is because the only risk to the wearer is that he/she might get wet, which is not a life-threatening hazard. If EN 343 is used in combination with other EN Standards the whole combination of standards is assessed by the notified body

### THE X AND Y VALUES

The X value indicates the waterproofness of the garment. There are 4 classes with 4 being the highest (i.e. the most waterproof) and 1 is the lowest. A specific quantity of pressurised water is applied to the fabric and the respective Class is derived from the amount of pressure the fabric can withstand.










The Y value indicates the breathability of the fabric/s (all the layers used in the article). There are also 4 classes for breathability with Class 1 being the lowest and Class 4 the highest. Wearing Class 1 garments longer than x minutes is not recommended (the length of time the article may be worn (x) is given in the standard in a table).

# PRODUCT MATRIX

SUSTAINABLE COLLECTION										
										
	<b>JK128M</b> PAGE 22	<b>TR120M</b> PAGE 23	<b>TR120F</b> PAGE 23	<b>CV100M</b> PAGE 24	<b>CV100F</b> PAGE 24	<b>CV155M</b> PAGE 25	<b>TR170M</b> PAGE 26	<b>TR170F</b> PAGE 26	<b>CV170M</b> PAGE 27	<b>CV170F</b> PAGE 27
	JACKET	TROUSER	LADIES' TROUSER	COVERALL	LADIES' COVERALL	COVERALL	TROUSER	LADIES' TROUSER	COVERALL	LADIES' COVERALL
	NAVY	NAVY	NAVY	NAVY	NAVY	NAVY/ HV YELLOW	HV YELLOW	HV YELLOW	HV YELLOW	HV YELLOW
	270 GMS	270 GMS	270 GMS	270 GMS	270 GMS	270 GMS	270 GMS	270 GMS	270 GMS	270 GMS
 <b>PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC</b> OPEN ARC TEST METHOD CAL RATING. ELIM RATING UNLESS STATED OTHERWISE	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>
 <b>PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC</b> BOX TEST METHOD, CLASS 1 OR 2	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1
 <b>CLOTHING TO PROTECT AGAINST HEAT &amp; FLAME</b> (LETTER 'A' LIMITED FLAME SPREAD, LETTER 'B' CONVECTIVE HEAT, LETTER 'C' RADIANT HEAT, LETTER 'D' MOLTEN ALUMINIUM SPLASH, LETTER 'E' MOLTEN IRON SPLASH, LETTER 'F' CONTACT HEAT)	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1
 <b>PROTECTIVE CLOTHING WITH ELECTROSTATIC PROPERTIES</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>PROTECTIVE CLOTHING FOR WELDING AND ALLIED PROCESSES</b> (CLASS 1 OR 2)	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2
 <b>HIGH VISIBILITY CLOTHING</b> (CLASS 1, 2 OR 3)							CLASS 2	CLASS 1	CLASS 3	CLASS 3
 <b>RIS 3279 RAIL STANDARD HIGH VISIBILITY</b>										
 <b>PROTECTION AGAINST RAIN</b>										
 <b>PROTECTION AGAINST CHEMICAL LIQUIDS</b>										
 <b>SOLAR UV PROTECTIVE PROPERTIES</b>	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+



SINGLE COLOUR COLLECTION

										
<b>5200</b> PAGE 30	<b>5202</b> PAGE 30	<b>5280</b> PAGE 31	<b>5282</b> PAGE 31	<b>5630</b> PAGE 32	<b>5530</b> PAGE 33	<b>5430</b> PAGE 34	<b>9931</b> PAGE 35	<b>5850</b> PAGE 36	<b>5790</b> PAGE 36	<b>7638</b> PAGE 37
POLO SHIRT	LADIES' POLO SHIRT	POLO SHIRT	LADIES' POLO SHIRT	SWEATSHIRT	HOODIE	T-SHIRT	SOFTSHELL JACKET	JACKET	LINED FLEECE	TROUSER
NAVY	NAVY	NAVY	NAVY	NAVY	NAVY	NAVY	NAVY	NAVY	NAVY	NAVY
260 GMS	260 GMS	210 GMS	210 GMS	320 GMS	320 GMS	200 GMS	340 GMS	250 GMS	310 GMS + 230 GMS	250 GMS
11 CAL/CM <sup>2</sup>	11 CAL/CM <sup>2</sup>	5 CAL/CM <sup>2</sup>	5 CAL/CM <sup>2</sup>	12 CAL/CM <sup>2</sup>	12 CAL/CM <sup>2</sup>	5.3 CAL/CM <sup>2</sup>	23 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	23 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>
APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 2	APC 1	APC 1	APC 1
A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C2, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C1	A1, B1, C1, F1	A1, A2, B1, C1, E1, F1	A1, B1, C2, F1	A1, A2, B1, C1, E1, F1
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								CLASS 1 A1 + A2		CLASS 1 A1 + A2
UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+	UPF 40+





















# PRODUCT MATRIX

	SINGLE COLOUR COLLECTION				TWO TONE COLOUR COLLECTION					
	 <b>7636</b> PAGE 37	 <b>7720</b> PAGE 38	 <b>6100</b> PAGE 39	 <b>6101</b> PAGE 39	 <b>5480</b> PAGE 42	 <b>5482</b> PAGE 42	 <b>5808</b> PAGE 43	 <b>5816</b> PAGE 44	 <b>5814</b> PAGE 44	 <b>5805</b> PAGE 45
	LADIES' TROUSER	COMBAT TROUSER	COVERALL	LADIES' COVERALL	T-SHIRT	LADIES' T-SHIRT	JACKET	TROUSER	LADIES' TROUSER	HI-VIS JACKET
	NAVY	NAVY	NAVY OR ORANGE	NAVY	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW
	250 GMS	300 GMS	250 GMS	250 GMS	190 GMS	190 GMS	300 GMS	300 GMS	300 GMS	300 GMS
 <b>PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC</b> OPEN ARC TEST METHOD CAL RATING. ELIM RATING UNLESS STATED OTHERWISE	8 CAL/CM <sup>2</sup>	9 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	9.9 CAL/CM <sup>2</sup>	9.9 CAL/CM <sup>2</sup>	9 CAL/CM <sup>2</sup>	9 CAL/CM <sup>2</sup>	9 CAL/CM <sup>2</sup>	9 CAL/CM <sup>2</sup>
 <b>PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC</b> BOX TEST METHOD, CLASS 1 OR 2	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1
 <b>CLOTHING TO PROTECT AGAINST HEAT &amp; FLAME</b> (LETTER 'A' LIMITED FLAME SPREAD, LETTER 'B' CONVECTIVE HEAT, LETTER 'C' RADIANT HEAT, LETTER 'D' MOLTEN ALUMINIUM SPLASH, LETTER 'E' MOLTEN IRON SPLASH, LETTER 'F' CONTACT HEAT)	A1, A2, B1, C1, E1, F1	A1, B1, C1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, A2, B1, C1, D1, E1, F1	A1, A2, B1, C1, D1, E1, F1	A1, A2, B1, C1, D1, E1, F1	A1, A2, B1, C1, D1, E1, F1
 <b>PROTECTIVE CLOTHING WITH ELECTROSTATIC PROPERTIES</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>PROTECTIVE CLOTHING FOR WELDING AND ALLIED PROCESSES</b> (CLASS 1 OR 2)	CLASS 1, A1 + A2		CLASS 1, A1 + A2	CLASS 1, A1 + A2			CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 1, A1 + A2
 <b>HIGH VISIBILITY CLOTHING</b> (CLASS 1, 2 OR 3)										CLASS 2
 <b>RIS 3279 RAIL STANDARD HIGH VISIBILITY</b>										
 <b>PROTECTION AGAINST RAIN</b>										
 <b>PROTECTION AGAINST CHEMICAL LIQUIDS</b>							TYPE 6 GARMENT	TYPE 6 GARMENT	TYPE 6 GARMENT	TYPE 6 GARMENT
 <b>SOLAR UV PROTECTIVE PROPERTIES</b>	UPF 40+		UPF 40+	UPF 40+	UPF 40+	UPF 40+				

For full Type 6 protection a compatible jacket or trouser of the same performance must be worn.

TWO TONE COLOUR COLLECTION									HI VIS YELLOW COLLECTION	
<b>5815</b> PAGE 46	<b>5810</b> PAGE 46	<b>7715</b> PAGE 47	<b>7522</b> PAGE 48	<b>6458</b> PAGE 49	<b>6444</b> PAGE 50	<b>6446</b> PAGE 50	<b>6460</b> PAGE 51	<b>4658</b> PAGE 52	<b>5286</b> PAGE 56	<b>5287</b> PAGE 56
HI-VIS TROUSER	LADIES' HI-VIS TROUSER	HI-VIS COMBAT TROUSER	HI-VIS DUNGAREE	COVERALL	COVERALL	LADIES' COVERALL	COVERALL	COVERALL	POLO SHIRT	LADIES' POLO SHIRT
NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV YELLOW	NAVY/ HV ORANGE	HV YELLOW	HV YELLOW
300 GMS	300 GMS	300 GMS	300 GMS	240 GMS	300 GMS	300 GMS	160 GMS	290GMS + 240 GMS	210 GMS	210 GMS
<b>9</b> CAL/CM <sup>2</sup>	<b>9</b> CAL/CM <sup>2</sup>	<b>9</b> CAL/CM <sup>2</sup>	<b>9</b> CAL/CM <sup>2</sup>	<b>8</b> CAL/CM <sup>2</sup>	<b>9</b> CAL/CM <sup>2</sup>	<b>9</b> CAL/CM <sup>2</sup>	<b>5</b> CAL/CM <sup>2</sup>	<b>ATPV</b> <b>8 CAL / CM<sup>2</sup></b>	<b>5.6</b> CAL/CM <sup>2</sup>	<b>5.6</b> CAL/CM <sup>2</sup>
APC 1	APC 1	APC1	APC1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1
A1, A2, B1, C1, D1, E1, F1	A1, A2, B1, C1, D1, E1, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, A2, B1, C1, E1, F1	A1, B1, C1, D1, E1, F1	A1, B1, C1, D1, E1, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C1, F1
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS 1, A1 + A2	CLASS 1, A1 + A2			CLASS 1, A1 + A2	CLASS 1, A1	CLASS 1, A1		CLASS 1, A1		
CLASS 1	CLASS 1	CLASS 1	CLASS 1	CLASS 3	CLASS 3	CLASS 2	CLASS 3	CLASS 3	CLASS 3	CLASS 3
								ISSUE 1		
TYPE 6 GARMENT	TYPE 6 GARMENT									
				UPF 40+	UPF 40+	UPF 40+				

# PRODUCT MATRIX

HI VIS YELLOW COLLECTION										
										
	<b>5486</b> PAGE 57	<b>5487</b> PAGE 57	<b>5626</b> PAGE 58	<b>9930</b> PAGE 59	<b>7418</b> PAGE 60	<b>7414</b> PAGE 60	<b>9750</b> PAGE 61	<b>9880</b> PAGE 62	<b>7480</b> PAGE 63	<b>7482</b> PAGE 63
	T-SHIRT	LADIES' T-SHIRT	SWEAT SHIRT	SOFTSHELL JACKET	TROUSER	LADIES' TROUSER	WATERPROOF JACKET	WATERPROOF SALOPETTES	COVERALL	LADIES' COVERALL
	HV YELLOW	HV YELLOW	HV YELLOW	HV YELLOW/NAVY	HV YELLOW	HV YELLOW	HV YELLOW/NAVY	HV YELLOW/NAVY	HV YELLOW	HV YELLOW
	190 GMS	190 GMS	320 GMS	340 GMS	250 GMS	250 GMS	395 GMS + 200 GMS	395 GMS + 200 GMS	250 GMS	250 GMS
 <b>PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC</b> OPEN ARC TEST METHOD CAL RATING. ELIM RATING UNLESS STATED OTHERWISE	9.9 CAL/CM <sup>2</sup>	9.9 CAL/CM <sup>2</sup>	12 CAL/CM <sup>2</sup>	23 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	42 CAL/CM <sup>2</sup>	42 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>	8 CAL/CM <sup>2</sup>
 <b>PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC</b> BOX TEST METHOD, CLASS 1 OR 2	CLASS 1	CLASS 1	APC 1	APC 2	APC 1	APC 1	APC 2	APC 2	APC 1	APC 1
 <b>CLOTHING TO PROTECT AGAINST HEAT &amp; FLAME</b> (LETTER 'A' LIMITED FLAME SPREAD, LETTER 'B' CONVECTIVE HEAT, LETTER 'C' RADIANT HEAT, LETTER 'D' MOLTEN ALUMINIUM SPLASH, LETTER 'E' MOLTEN IRON SPLASH, LETTER 'F' CONTACT HEAT)	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C2, F1	A1, B1, C1, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1	A1, B1, C1, D3, E3, F1	A1, B1, C2, D3, E3, F1	A1, A2, B1, C1, E1, F1	A1, A2, B1, C1, E1, F1
 <b>PROTECTIVE CLOTHING WITH ELECTROSTATIC PROPERTIES</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>PROTECTIVE CLOTHING FOR WELDING AND ALLIED PROCESSES</b> [CLASS 1 OR 2]					CLASS 1, A1 + A2	CLASS 1, A1 + A2	CLASS 2, A1	CLASS 2, A1	CLASS 1, A1 + A2	CLASS 1, A1 + A2
 <b>HIGH VISIBILITY CLOTHING</b> [CLASS 1, 2 OR 3]	CLASS 2	CLASS 2	CLASS 3	CLASS 3	CLASS 2	CLASS 2	CLASS 3	CLASS 2	CLASS 3	CLASS 3
 <b>RIS 3279 RAIL STANDARD HIGH VISIBILITY</b>										
 <b>PROTECTION AGAINST RAIN</b>							CLASS 3/3/X	CLASS 3/3/X		
 <b>PROTECTION AGAINST CHEMICAL LIQUIDS</b>							TYPE 6 GARMENT	TYPE 6 GARMENT		
 <b>SOLAR UV PROTECTIVE PROPERTIES</b>	UPF 40+	UPF 40+	UPF 40+							

For full Type 6 protection a compatible jacket or trouser of the same performance must be worn.











HI VIS YELLOW COLLECTION				HI VIS ORANGE COLLECTION						
										
<b>9720</b> PAGE 64	<b>9820</b> PAGE 65	<b>9150</b> PAGE 66	<b>9155</b> PAGE 67	<b>5290</b> PAGE 70	<b>5292</b> PAGE 70	<b>5390</b> PAGE 71	<b>5648</b> PAGE 72	<b>4608</b> PAGE 73	<b>4616</b> PAGE 74	<b>4614</b> PAGE 74
WATERPROOF JACKET	WATERPROOF SALOPETTES	UNLINED WATERPROOF JACKET	UNLINED WATERPROOF DUNGAREE	POLO SHIRT	LADIES' POLO SHIRT	POLO SHIRT	SWEAT SHIRT	JACKET	TROUSER	LADIES' TROUSER
HV YELLOW / NAVY	HV YELLOW / NAVY	HV YELLOW / NAVY	HV YELLOW / NAVY	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE
250 GMS + 120 GMS	250 GMS + 120 GMS	250 GMS	250 GMS	220 GMS	220 GMS	220 GMS	430 GMS	290 GMS	290 GMS	290 GMS
23 CAL/CM <sup>2</sup>	23 CAL/CM <sup>2</sup>	9.3 CAL/CM <sup>2</sup>	9.3 CAL/CM <sup>2</sup>	6 CAL/CM <sup>2</sup>	6 CAL/CM <sup>2</sup>	6.9 CAL/CM <sup>2</sup>	9.9 CAL/CM <sup>2</sup>	ATPV 8 CAL / CM <sup>2</sup>	ATPV 8 CAL / CM <sup>2</sup>	ATPV 8 CAL / CM <sup>2</sup>
APC 2	APC 2	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1	APC 1
A1, B1, C1 D1, E1, F1	A1, B1, C1 D1, E1, F1	A1, B1, C1 D1, E1, F1	A1, B1, C1 D1, E1, F1	A1, B1, C1	A1, B1, C1	A1, B1, C1	A1, B1, C2, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C1, F1
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS 1, A1	CLASS 1, A1	CLASS 1, A1	CLASS 1, A1					CLASS 1, A1	CLASS 1, A1	CLASS 1, A1
CLASS 3	CLASS 1	CLASS 3	CLASS 1	CLASS 3	CLASS 3	CLASS 3	CLASS 3	CLASS 3	CLASS 1	CLASS 1
				ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2
CLASS 3/3/X	CLASS 3/3/X	CLASS 3/3/X	CLASS 3/3/X							
TYPE 6 GARMENT	TYPE 6 GARMENT	TYPE 6 GARMENT	TYPE 6 GARMENT							
							UPF 40+			



# PRODUCT MATRIX

HI VIS ORANGE COLLECTION										
<b>4616-ARA</b> PAGE 75	<b>4614-ARA</b> PAGE 75	<b>9440</b> PAGE 76	<b>9660</b> PAGE 77	<b>4690</b> PAGE 78	<b>4692</b> PAGE 78	<b>4693</b> PAGE 79	<b>4694</b> PAGE 79	<b>9422</b> PAGE 80	<b>9622</b> PAGE 81	
LIGHTWEIGHT TROUSER	LADIES' LIGHTWEIGHT TROUSER	WATERPROOF JACKET	WATERPROOF SALOPETTES	COVERALL	LADIES' COVERALL	COVERALL	LADIES' COVERALL	WATERPROOF JACKET	WATERPROOF SALOPETTES	
HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	HV ORANGE	
290 GMS	290 GMS	395 GMS + 200 GMS	395 GMS + 200 GMS	290 GMS	290 GMS	240GMS	240GMS	250 GMS + 120 GMS	250 GMS + 120 GMS	
 <b>PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC</b> OPEN ARC TEST METHOD CAL RATING. ELIM RATING UNLESS STATED OTHERWISE	6.2 CAL/CM <sup>2</sup>	6.2 CAL/CM <sup>2</sup>	42 CAL/CM <sup>2</sup>	42 CAL/CM <sup>2</sup>	ATPV 8 CAL / CM <sup>2</sup>	ATPV 8 CAL / CM <sup>2</sup>	6.2 CAL/CM <sup>2</sup>	6.2 CAL/CM <sup>2</sup>	23 CAL/CM <sup>2</sup>	23 CAL/CM <sup>2</sup>
 <b>PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF ELECTRIC ARC</b> BOX TEST METHOD, CLASS 1 OR 2	APC 1	PC 1	APC 2	APC 2	APC 1	APC 1	APC 1	APC 1	APC 2	APC 2
 <b>CLOTHING TO PROTECT AGAINST HEAT &amp; FLAME</b> (LETTER 'A' LIMITED FLAME SPREAD, LETTER 'B' CONVECTIVE HEAT, LETTER 'C' RADIANT HEAT, LETTER 'D' MOLTEN ALUMINIUM SPLASH, LETTER 'E' MOLTEN IRON SPLASH, LETTER 'F' CONTACT HEAT)	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C2, D3, E3, F1	A1, B1, C2, D3, E3, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C1, F1	A1, B1, C1, D1, E1, F1	A1, B1, C1 D1, E1, F1
 <b>PROTECTIVE CLOTHING WITH ELECTROSTATIC PROPERTIES</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>PROTECTIVE CLOTHING FOR WELDING AND ALLIED PROCESSES</b> (CLASS 1 OR 2)	CLASS 1, A1	CLASS 1, A1	CLASS 2, A1	CLASS 2, A1	CLASS 1, A1	CLASS 1, A1	CLASS 1, A1	CLASS 1, A1	CLASS 1, A1	CLASS 1, A1
 <b>HIGH VISIBILITY CLOTHING</b> (CLASS 1, 2 OR 3)	CLASS 1	CLASS 1	CLASS 3	CLASS 2	CLASS 3	CLASS 3	CLASS 3	CLASS 3	CLASS 3	CLASS 1
 <b>RIS 3279 RAIL STANDARD HIGH VISIBILITY</b>	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 2	ISSUE 1	ISSUE 1
 <b>PROTECTION AGAINST RAIN</b>			CLASS 3/3/X	CLASS 3/3/X					CLASS 3/3/X	CLASS 3/3/X
 <b>PROTECTION AGAINST CHEMICAL LIQUIDS</b>			TYPE 6 GARMENT	TYPE 6 GARMENT					TYPE 6 GARMENT	TYPE 6 GARMENT
 <b>SOLAR UV PROTECTIVE PROPERTIES</b>										

For full Type 6 protection a compatible jacket or salopette of the same performance must be worn.

HI VIS ORANGE COLLECTION		BASELAYERS COLLECTION							
									
<b>9140</b> PAGE 82	<b>9144</b> PAGE 82	<b>8210</b> PAGE 86	<b>8220</b> PAGE 87	<b>8100</b> PAGE 88	<b>8300</b> PAGE 88	<b>8400</b> PAGE 88	<b>8700</b> PAGE 89	<b>8770</b> PAGE 90	<b>2105</b> PAGE 90
UNLINED WATERPROOF JACKET	UNLINED WATERPROOF DUNGAREE	BASELAYER TOP	BASELAYER LEGGINGS	BALACLAVA	SNOOD	HELMET LINER	BOXER BRIEFS	FR BRA	SOCKS
HV ORANGE	HV ORANGE	NAVY	NAVY	NAVY	NAVY	NAVY	NAVY	BLACK	NAVY
250 GMS	250 GMS	220 GMS	220 GMS	220 GMS	220 GMS	220 GMS	180 GMS	330 GMS	180 GMS
<b>9.3 CAL/CM²</b>	<b>9.3 CAL/CM²</b>	<b>3.6 CAL/CM²</b>	<b>3.6 CAL/CM²</b>						
<b>APC 1</b>	<b>APC 1</b>								
<b>A1, B1, C1 D1, E1, F1</b>	<b>A1, B1, C1 D1, E1, F1</b>	<b>A1, B1, C1</b>	<b>A1, B1, C1</b>	<b>A1, B1, C1</b>	<b>A1, B1, C1</b>	<b>A1, B1, C1</b>	<b>A1, B1, C1</b>	<b>A1, B1, C1</b>	<b>INDEX 3</b>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>CLASS 1, A1</b>	<b>CLASS 1, A1</b>								
<b>CLASS 3</b>	<b>CLASS 1</b>								
<b>ISSUE 2</b>	<b>ISSUE 2</b>								
<b>CLASS 3/3/X</b>	<b>CLASS 3/3/X</b>								
<b>TYPE 6 GARMENT</b>	<b>TYPE 6 GARMENT</b>								

# SIZE GUIDELINES

POLO SHIRTS, T-SHIRTS, SWEATSHIRTS, JACKETS									
UK	XS	S	M	L	XL	2XL	3XL	4XL	5XL
CHEST TO FIT (INCHES)	34-36	36-38	38-41	41-44	44-46	46-50	50-52	52-56	56-58
CHEST TO FIT (CMS)	85-90	90-95	95-102.5	102.5-110	110-115	115-125	125-130	130-140	140-145
EUR	44-46	46-48	48-52	52-56	56-58	58-62	62-64	64-66	66-68
DE	42-44	44-46	46-50	50-54	54-56	56-60	60-62	62-66	66-68
NL	42-44	44-46	46-50	50-54	54-56	56-60	60-62	62-66	66-68

LADIES POLO SHIRTS									
UK	8	10	12	14	16	18	20	22	24
BUST TO FIT (INCHES)	34-36	36-38	38-40	40-42	42-44	44-46	46-48	48-50	50-52
BUST TO FIT (CMS)	85-90	90-95	95-100	100-105	105-110	110-115	115-120	120-125	125-130
EUR	44-46	46-48	48-50	50-54	54-56	56-58	58-60	60-62	62-64
DE	42-44	44-46	46-48	48-52	52-54	54-56	56-58	58-60	60-62
NL	42-44	44-46	46-48	48-52	52-54	54-56	56-58	58-60	60-62

WATERPROOF JACKETS									
UK	XS	S	M	L	XL	2XL	3XL	4XL	5XL
CHEST TO FIT (INCHES)	34-36	36-38	38-41	41-44	44-46	46-50	50-52	52-56	56-58
CHEST TO FIT (CMS)	85-90	90-95	95-102.5	102.5-110	110-115	115-125	125-130	130-140	140-145
EUR	44-46	46-48	48-52	52-56	56-58	58-62	62-64	64-66	66-68
DE	42-44	44-46	46-50	50-54	54-56	56-58	58-60	60-62	62-64
NL	42-44	44-46	46-50	50-54	54-56	56-58	58-60	60-62	62-64

WATERPROOF SALOPETTES									
UK	XS	S	M	L	XL	2XL	3XL	4XL	5XL
WAIST TO FIT (INCHES)	35	37	39	41	43	45	47	49	51
WAIST TO FIT (CMS)	89	94	99	104	109	114	119	124	129
INSIDE LEG TO FIT (INCHES)	32	32	32	32	32	32	32	32	32
INSIDE LEG TO FIT (CMS)	81	81	81	81	81	81	81	81	81
EUR	50R	52R	54R	56R	58R	60R	62R	64R	66R
DE	48	50	52	54	56	58	60	62	64
NL	48R	50R	52R	54R	56R	58R	60R	62R	64R

BASELAYERS									
UK	XS	S	M	L	XL	2XL	3XL	4XL	5XL
CHEST TO FIT (INCHES)	34-36	36-38	38-41	41-44	44-46	46-50	50-52	52-56	56-58
CHEST TO FIT (CMS)	85-90	90-95	95-102.5	102.5-110	110-115	115-125	125-130	130-140	140-145
WAIST TO FIT (INCHES)	26.8	29.9	33.1	36.2	39.4	42.5	45.7	48.8	51.9
WAIST TO FIT (CMS)	68	76	84	92	100	108	116	124	132
BODY LENGTH (CMS)	164-172	164-172	172-180	172-180	180-188	180-188	188-196	188-196	188-196

MENS TROUSERS/DUNGAREES (SHORT)													
UK	30"S	32"S	34"S	35"S	36"S	38"S	40"S	42"S	44"S	46"S	48"S	50"S	52"S
WAIST TO FIT (INCHES)	30	32	34	35	36	38	40	42	44	46	48	50	52
WAIST TO FIT (CMS)	75	80	85	87.5	90	95	100	105	110	115	120	125	130
INSIDE LEG TO FIT (INCHES)	30	30	30	30	30	30	30	30	30	30	30	30	30
INSIDE LEG TO FIT (CMS)	76	76	76	76	76	76	76	76	76	76	76	76	76
EUR	44S	46S	50S	51S	52S	54S	56S	58S	60S	62S	64S	66S	68S
DE	22	23	24	25	26	27	28	29	30	31	32	33	34
NL	42S	44S	48S	49S	50S	52S	54S	56S	58S	60S	62S	64S	66S
SE	D84	D88	D92	D94	D96	D100	D104	D108	D112	D116	D120	D124	D128

MENS TROUSERS/DUNGAREES (REGULAR)													
UK	30"R	32"R	34"R	35"R	36"R	38"R	40"R	42"R	44"R	46"R	48"R	50"R	52"R
WAIST TO FIT (INCHES)	30	32	34	35	36	38	40	42	44	46	48	50	52
WAIST TO FIT (CMS)	75	80	85	87.5	90	95	100	105	110	115	120	125	130
INSIDE LEG TO FIT (INCHES)	32	32	32	32	32	32	32	32	32	32	32	32	32
INSIDE LEG TO FIT (CMS)	81	81	81	81	81	81	81	81	81	81	81	81	81
EUR	44R	46R	50R	51R	52R	54R	56R	58R	60R	62R	64R	66R	68R
DE	44	46	48	50	52	54	56	58	60	62	64	66	68
NL	42R	44R	48R	49R	50R	52R	54R	56R	58R	60R	62R	64R	66R
SE	C44	C46	C50	C51	C52	C54	C56	C58	C60	C62	C64	C66	C68

Available from stock  Available to order

Note: This size chart was correct at the time of going to print.

**MENS TROUSERS/DUNGAREES (TALL)**

UK	30''T	32''T	34''T	35''T	36''T	38''T	40''T	42''T	44''T	46''T	48''T	50''T	52''T
WAIST TO FIT (INCHES)	30	32	34	35	36	38	40	42	44	46	48	50	52
WAIST TO FIT (CMS)	75	80	85	87.5	90	95	100	105	110	115	120	125	130
INSIDE LEG TO FIT (INCHES)	34	34	34	34	34	34	34	34	34	34	34	34	34
INSIDE LEG TO FIT (CMS)	86	86	86	86	86	86	86	86	86	86	86	86	86
EUR	44L	46L	50L	51L	52L	54L	56L	58L	60L	62L	64L	66L	68L
DE	90	94	98	102	106	110	114	118	122	126	130	134	138
NL	42L	44L	48L	49L	50L	52L	54L	56L	58L	60L	62L	64L	66L
SE	C144	C146	C150	C151	C152	C154	C156	C158	C160	C162	C164	C166	C168

**MENS COVERALLS (SHORT)**

UK	38''S	40''S	42''S	43''S	44''S	46''S	48''S	50''S	52''S	54''S	56''S	58''S	60''S
CHEST TO FIT (INCHES)	36-38	38-40	40-42	42-43	43-44	44-46	46-48	48-50	50-52	52-54	54-56	56-58	58-60
CHEST TO FIT (CMS)	90-95	95-100	100-105	105-107.5	107.5-110	110-115	115-120	120-125	125-130	130-135	135-140	140-145	145-150
INSIDE LEG TO FIT (INCHES)	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
INSIDE LEG TO FIT (CMS)	75	75	75	75	75	75	75	75	75	75	75	75	75
EUR	48S	50S	54S	55S	56S	58S	60S	62S	64S	66S	68S	70S	72S
DE	24	25	26	27	28	29	30	31	32	-	33	-	34
NL	46S	48S	52S	53S	54S	56S	58S	60S	62S	64S	66S	68S	70S

**MENS COVERALLS (REGULAR)**

UK	38''R	40''R	42''R	43''R	44''R	46''R	48''R	50''R	52''R	54''R	56''R	58''R	60''R
CHEST TO FIT (INCHES)	36-38	38-40	40-42	42-43	43-44	44-46	46-48	48-50	50-52	52-54	54-56	56-58	58-60
CHEST TO FIT (CMS)	90-95	95-100	100-105	105-107.5	107.5-110	110-115	115-120	120-125	125-130	130-135	135-140	140-145	145-150
INSIDE LEG TO FIT (INCHES)	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
INSIDE LEG TO FIT (CMS)	80	80	80	80	80	80	80	80	80	80	80	80	80
EUR	48R	50R	54R	55R	56R	58R	60R	62R	64R	66R	68R	70R	72R
DE	48	50	52	54	56	58	60	62	64	65	66	67	68
NL	46R	48R	52R	53R	54R	56R	58R	60R	62R	64R	66R	68R	70R

**MENS COVERALLS (TALL)**

UK	38''T	40''T	42''T	43''T	44''T	46''T	48''T	50''T	52''T	54''T	56''T	58''T	60''T
CHEST TO FIT (INCHES)	36-38	38-40	40-42	42-43	43-44	44-46	46-48	48-50	50-52	52-54	54-56	56-58	58-60
CHEST TO FIT (CMS)	90-95	95-100	100-105	105-107.5	107.5-110	110-115	115-120	120-125	125-130	130-135	135-140	140-145	145-150
INSIDE LEG TO FIT (INCHES)	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
INSIDE LEG TO FIT (CMS)	85	85	85	85	85	85	85	85	85	85	85	85	85
EUR	48L	50L	54L	55L	56L	58L	60L	62L	64L	66L	68L	70L	72L
DE	98	102	106	110	114	118	122	126	130	132	134	136	138
NL	46L	48L	52L	53L	54L	56L	58L	60L	62L	64L	66L	68L	70L

**LADIES TROUSERS/DUNGAREES (SHORT)**

UK	8S	10S	12S	14S	16S	18S	20S	22S	24S
WAIST TO FIT (INCHES)	30.7	32.7	34.6	36.6	38.6	40.6	42.5	44.5	46.5
WAIST TO FIT (CMS)	78	83	88	93	98	103	108	113	118
HIPS TO FIT (INCHES)	40.6	42.5	44.5	46.5	48.4	50.4	52.4	54.3	56.3
HIPS TO FIT (CMS)	103	108	113	118	123	128	133	138	143
INSIDE LEG TO FIT (INCHES)	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
INSIDE LEG TO FIT (CMS)	70	70	70	70	70	70	70	70	70
DE	17	18	19	20	21	22	23	24	25
SE	D17	D18	D19	D20	D21	D22	D23	D24	D25

**LADIES TROUSERS/DUNGAREES (REGULAR)**

UK	8R	10R	12R	14R	16R	18R	20R	22R	24R
WAIST TO FIT (INCHES)	30.7	32.7	34.6	36.6	38.6	40.6	42.5	44.5	46.5
WAIST TO FIT (CMS)	78	83	88	93	98	103	108	113	118
HIPS TO FIT (INCHES)	40.6	42.5	44.5	46.5	48.4	50.4	52.4	54.3	56.3
HIPS TO FIT (CMS)	103	108	113	118	123	128	133	138	143
INSIDE LEG TO FIT (INCHES)	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
INSIDE LEG TO FIT (CMS)	75	75	75	75	75	75	75	75	75
DE	34	36	38	40	42	44	46	48	50
SE	C36	C38	C40	C42	C44	C46	C48	C50	C52

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LADIES TROUSERS/DUNGAREES (TALL)									
UK	8T	10T	12T	14T	16T	18T	20T	22T	24T
WAIST TO FIT (INCHES)	30.7	32.7	34.6	36.6	38.6	40.6	42.5	44.5	46.5
WAIST TO FIT (CMS)	78	83	88	93	98	103	108	113	118
HIPS TO FIT (INCHES)	40.6	42.5	44.5	46.5	48.4	50.4	52.4	54.3	56.3
HIPS TO FIT (CMS)	103	108	113	118	123	128	133	138	143
INSIDE LEG TO FIT (INCHES)	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
INSIDE LEG TO FIT (CMS)	80	80	80	80	80	80	80	80	80
DE	68	72	76	80	84	88	92	96	100
SE	C136	C138	C140	C142	C144	C146	C148	C150	C152

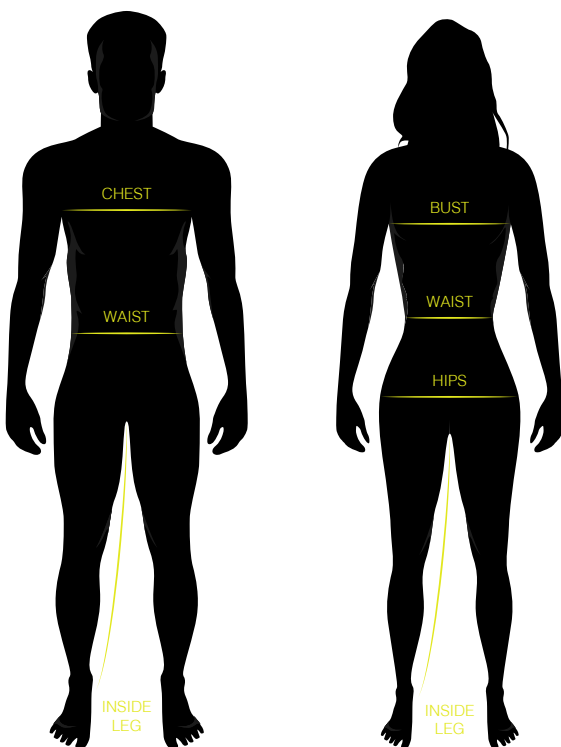
LADIES COVERALLS (SHORT)									
UK	8S	10S	12S	14S	16S	18S	20S	22S	24S
BUST TO FIT (INCHES)	34-36	36-38	38-40	40-42	42-44	44-46	46-48	48-50	50-52
BUST TO FIT (CMS)	85-90	90-95	95-100	100-105	105-110	110-115	115-120	120-125	125-130
INSIDE LEG TO FIT (INCHES)	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
INSIDE LEG TO FIT (CMS)	70	70	70	70	70	70	70	70	70

LADIES COVERALLS (REGULAR)									
UK	8R	10R	12R	14R	16R	18R	20R	22R	24R
BUST TO FIT (INCHES)	34-36	36-38	38-40	40-42	42-44	44-46	46-48	48-50	50-52
BUST TO FIT (CMS)	85-90	90-95	95-100	100-105	105-110	110-115	115-120	120-125	125-130
INSIDE LEG TO FIT (INCHES)	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
INSIDE LEG TO FIT (CMS)	75	75	75	75	75	75	75	75	75

LADIES COVERALLS (TALL)									
UK	8T	10T	12T	14T	16T	18T	20T	22T	24T
BUST TO FIT (INCHES)	34-36	36-38	38-40	40-42	42-44	44-46	46-48	48-50	50-52
BUST TO FIT (CMS)	85-90	90-95	95-100	100-105	105-110	110-115	115-120	120-125	125-130
INSIDE LEG TO FIT (INCHES)	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
INSIDE LEG TO FIT (CMS)	80	80	80	80	80	80	80	80	80

Available from stock
  Available to order

Note: This size chart was correct at the time of going to print.



## HOW TO MEASURE AND PICK THE RIGHT SIZE

### Chest / Bust measurement

Measure the circumference of your chest/bust below the armpit, measure the widest point.

**Example 1:** if your chest measures 102cm, for polo shirt the most suitable size would be M.

**Example 2:** if your bust measures 98cm, for ladies' polo shirt the most suitable size would be 12.

Note: some garments such as Softshell Jackets would have a slim fit and it may be best to pick one size up if you prefer a looser fit.

### Waist measurement

Measure tightly around the waist and pick size accordingly, if your measurements fall in-between two sizes, we recommend picking the larger one, remember to check your inside leg measurement.

### Hip measurement

Measure tightly around the widest part of the hip, also measure the waist and pick size accordingly. If your measurements fall in-between two sizes, we recommend picking the larger one, remember to check your inside leg measurement.

### Inside leg measurement

Measure the distance between crotch and ankle and pick size that is the same or slightly longer than your measurement.



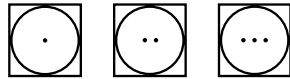
# PROGARM®

# GARMENT CARE

# INSTRUCTIONS



**WASHING TEMPERATURE**



**TUMBLE DRY SETTINGS**

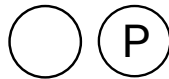
(LOW/MEDIUM/HIGH)



**DO NOT TUMBLE DRY**



**DRY FLAT**



**DRY CLEANING ALLOWED**

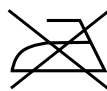


**DO NOT DRY CLEAN**



**IRONING ALLOWED**

(LOW/MEDIUM/HIGH)



**DO NOT IRON**



**DO NOT BLEACH**

**PLEASE REFER TO GARMENT CARE LABEL  
FOR WASHING INSTRUCTIONS SYMBOLS**







**ProGARM**<sup>®</sup>  
PROTECTING LIVES

**ProGARM<sup>®</sup> United Kingdom**

Dianthus Business Park,  
Common Lane,  
Newport, Brough,  
East Yorkshire,  
HU15 2FT

**Tel: +44 (0)1482 679600**

**Email: [sales@progarm.com](mailto:sales@progarm.com)**

**Web: [www.progarm.com](http://www.progarm.com)**

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