

PORTWEST

100 years experience in every stitch



FLAME RESISTANT PPE RANGE

PORTWEST

LEADING EXPERTS IN FLAME RESISTANT PPE

Manufacturing since 1904

Independently Audited Quality System

All Ranges Fully Certified to Latest EN Standards

Market leader in Flame Resistant, High Visibility, Footwear and PPE

PORTWEST SELL TO RE-SELLERS ONLY

What really sets Portwest aside from our competitors is that we understand the needs of our distributors better than anyone else does. Through our experience of selling to resellers only, we pride ourselves in supplying the right product, at the right time, at the right price and providing a one stop shop for distributors.

SAME DAY SERVICE

Portwest provides a unique range of services to our customers, coupled with experience, commitment and passion in everything that we do. Our vast array of services include bespoke service garment production, a stock storage facility, complete garment personalisation, and large distribution centres throughout Europe. We also offer a same day service where orders are picked and dispatched within four hours.

ETHICAL PRACTICES

At Portwest we strongly believe in worldwide ethical practices and principles.

FULL EN TESTING AND CERTIFICATION

Each Portwest EN standard product is tested and certified by an independent test house. These certificates are available for customer download at our website www.portwest.info. This ensures all Portwest safety products meet and comply with recognised EN standards. In addition every Portwest product goes through rigorous and routine in-house testing to ensure the complete product range is of the highest quality.

Portwest Ltd is a member of SATRA, the industry's leading research and technology centre, employing scientific, technical and support staff in the UK and China. The brand is recognised and respected in over 70 countries. Portwest is also a member of BSI, which is the National Standards Body of the UK, with a globally recognised reputation for independence, integrity and innovation in the production of standards that promote best practice.

YOUR SAFETY IS OUR BUSINESS

**FOUNDRIES • MANUFACTURING • OIL & GAS • POWER GENERATION • PORTS & SHIPPING
ELECTRICAL • MINING • UTILITIES • ONSHORE/OFFSHORE • WELDING & ALLIED PROCESSES
STEEL MAKING • FIRE FIGHTING • OIL HANDLING/TANK CLEANING PETROCHEMICAL
AIRCRAFT RESCUE • WELDING • CHEMICAL HANDLING**

REACH COMPLIANCE



Portwest confirms our full compliance under REACH legislation and we are fully supportive of worldwide industry efforts to phase out the use of chemicals where possible in the manufacturing process. We are committed to continually reducing our impact on the world's natural environment, and we work closely with suppliers to identify and rapidly eliminate hazardous substances from our products.

PORTWEST: providing your solution to REACH compliance. For details of your legal obligations under REACH, please refer to <http://echa.europa.eu>



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KEY SYMBOLS

PRODUCT DETAIL SYMBOLS

	Layer Symbol This symbol indicates the number of layers used within a garment.		Welded Seams This symbol indicates that the garment has high frequency welded waterproof seams.		Fabric This symbol indicates garment fabric details
	Part of a Set This symbol indicates that the garment is certified to a certain standard only when all items are worn together.		GO/RT Symbol This symbol indicates that the garment meets the Rail Industry Standard for High Visibility warning clothing.		Contrast Fabric This symbol indicates the garment contrast fabric details
	Radio Pocket This symbol indicates that the garment has a universal radio pocket.		Breathable Garment This symbol indicates that the garment is made of a breathable, waterproof fabric.		Lining This symbol indicates the garment lining details
	Certified This symbol indicates conformity of essential health and safety requirements as set out in European Directives.		Hood Symbol This symbol indicates that the garment comes with a non detachable hood		Wadding This symbol indicates the garment wadding details
	Mobile Phone This symbol indicates that the garment has a mobile phone pocket		Detachable Hood Symbol This symbol indicates that the garment comes with a detachable hood		X-Colour This symbol indicates the standard colours within that product range
	Flexi Fit This symbol indicates the Portwest flexi-fit waist band system which allows for added freedom of movement.		Carton Quantity This symbol indicates the quantity of products in a carton which do not have inner boxes.		Y-Colour This symbol indicates the deep dye colours within that product range
	Half Elastic This symbol indicates a Half Elastic waistband on trouser which allows for all-day comfort for the wearer.		Garment Hanger This symbol indicates products are packed with a hanger and retail packaging for display in retail outlets. Ask the sales team for more information.		Z-Colour This symbol indicates the very deep dye colours within that product range
	Kneepad Pockets This symbol indicates that the garment has specially designed kneepad pockets		Retail Bag This symbol indicates that this packaging aids product presentation for retail sales. All other styles are packed in flat-pack plastic bags to keep items clean. All products have barcodes. Ask the sales team for more information.		Upper This symbol indicates the material used in the upper of the product
	Taped Seams This symbol indicates that the garment has taped waterproof seams.				Sole This symbol indicates the material used in the sole of the product

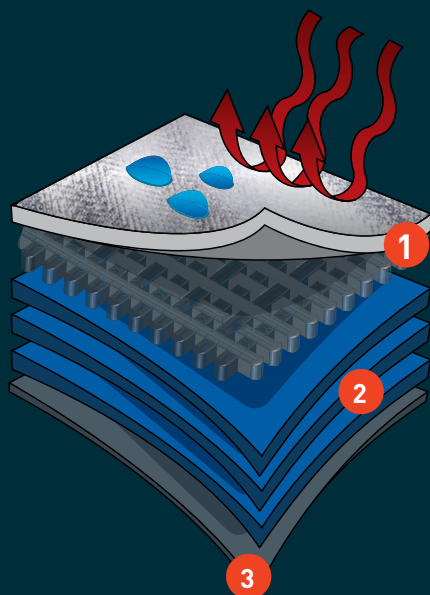
IGNIS

Heat Reflective Aluminised Range

The **IGNIS** Fabric was specifically designed for the manufacture of flexible and comfortable garments used in close proximity or entry into high intensity fires.

Extremely lightweight - 330gm, and pliable, the **IGNIS** outer-shell fabric is constructed from 95% Meta-aramid and 5% Para-aramid. The mirror-like surface reflects radiant heat away, allowing close flame proximity while reducing the rate of heat absorption that can lead to thermal fatigue.

The integration of additional inner carbon felt linings ensure superior protection and performance in the extreme work environments faced by civilians, emergency service, military personnel and in industries such as aircraft rescue, aircraft firefighting, bulk flammable liquids and similar situations involving high levels of radiant heat.



EN 1486

EN 1486

This European Standard specifies test methods and minimum performance requirements for reflective protective clothing used in specialised fire-fighting.

This clothing provides protection against flame lick and intense radiant heat and is worn for short periods only, to enable the fire-fighter to enter specific high - risk fire-fighting and fire rescue situations which also require the use of breathing apparatus.

This standard only covers protective clothing that relies upon the ability of the outer material to reflect intense heat. This type of reflective clothing may also be used for industrial applications involving high levels of radiant heat.

EN1486:2007

Flame Spread
Heat Transfer (Radiation)
Heat Transfer (Convective)
Contact Heat
Heat Resistance
Dimensional Change
Tensile Strength
Burst Strength
Tear Strength
Seam Strength
Surface Wetting
Whole Garment Testing (Optional)



EN ISO 11612

EN ISO 11612

The performance requirements set out in this international standard are applicable to garments which could be worn for a wide range of end uses, where there is a need for clothing with limited flame spread properties and where the user can be exposed to radiant or convective or contact heat or molten metal splashes.

Code A: Limited flame spread
Code B: Protection against Convective Heat - 3 levels
Code C: Protection against Radiant Heat - 4 levels
Code D: Protection against Molten Aluminium Splash - 3 levels
Code E: Protection against Molten Iron Splash - 3 levels
Code F: Protection against Contact Heat - 3 levels

EN ISO 11612:2008

Dimensional change
Limited Flame Spread (A1+A2)
Convective heat (B)
Radiant Heat (C)
Molten Aluminium Splash (D)
Molten Iron Splash (E)
Contact heat (F)
Heat Resistance
Tensile strength
Tear strength
Bursting strength
Seam strength

Layering Structure

The Ignis Aluminised Suits are constructed with the following outer, mid and inner layers:

① Outer Ignis Aluminised Shell:

The Ignis Aluminised 330gm outer shell fabric is made of special heat and flame resistant textiles which, when exposed to fire, char instead of melt or combust, thereby reducing further injuries that can be caused by the ignition of the materials.

② Mid Thermal Liner:

Constructed of layers of 120gm Carbon Felt - a flame-resistant, non-woven fabric. The thickness of the felt also insulates the wearer from the effects of extreme heat encountered during structural fire fighting operations.

③ Inner Thermal Liner:

An inner layer of 125gm Aramid Viscose - an anti-flame woven fabric that provides stability and strength.

All Ignis garments are made in Europe

Selection of appropriate PPE is based on a risk assessment made by the user according to the European Directive 686/89 EC. There are 3 types of Aluminised Reflective Clothing

Fire Entry Range:

Constructed with 7 layers of heat resistant materials, the Ignis Fire Entry suit provides the maximum in heat protection and requires the use of a self contained breathing apparatus to provide breathable air to the wearer.

These suits provide full body coverage and are worn for entry into extreme heat and situations requiring protection from total flame engulfment. These suits are certified to EN1486:2007

Fire Entry Suit Applications:

- Total flame engulfment



EN 1486



Proximity Range:

Providing full body coverage including the head, hands and feet and with one layer of thermal lining, the Proximity garments provide excellent protection from radiant heat and high temperatures.

Due to the high ambient temperatures that the wearer can be subjected to, it is suggested that the Ignis Proximity suits are worn with a breathing apparatus to provide breathing air at normal temperatures.

The Proximity garments, certified to EN11612, are used for aircraft rescue, aircraft firefighting and proximity of high temperatures (but not entry into direct flame).

Proximity Suit Applications:

- Aircraft rescue
- Aircraft firefighting
- Bulk flammable liquids firefighting
- Flammable gas firefighting
- Similar situations releasing
- High levels of radiant heat



EN ISO 11612



Approach Range:

Certified to EN11612, this range is constructed with the Ignis outer shell with some items having additional internal layers for increased heat resistance.

This range of PPE is used for industrial work involving high temperatures such as steel mills and smelting facilities and does not require a breathing apparatus to be worn.

Approach Suit Applications:

- Airport personnel
- Aluminium industry
- Automotive industry
- Cement industry
- Ceramic industry
- Engineering
- Foundry workers
- Glass industry
- Iron & steel industry
- Railways
- Shipbuilding
- Welding



EN ISO 11612



IGNIS “Fire Entry” Range

Certified to EN1486:2007 and designed for maximum personal fire protection, the three piece Ignis Fire Entry Suit is highly engineered to support the most extreme conditions. The insulation capabilities make the Ignis Fire Entry Suits the top choice for entry into intense heat and total flame engulfment.



AM32 Fire Entry Gloves

EN 1486:2007

These high heat-resistant, five layered gloves reflect radiant heat while the carbon lining helps reduce heat conduction. The Ignis Fire Entry Gloves must be worn with the AM30 Fire Entry Coverall and the AM31 Fire Entry Overboots.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer
Mid Layer: Carbon Felt 120gm - 3 layers
Inner Layer: Aramid Viscose 125gm - 1 layer
Silver, One Size - Length 40cms



AM31 Fire Entry Overboots

EN 1486:2007

Designed to fit over all boot sizes, these seven layered, heat resistant, Fire Entry Overboots reflect radiant heat while the carbon lining helps reduce heat conduction. The Para-aramid soles offer excellent abrasion resistance. The Ignis Fire Entry Overboots must be worn with the AM30 Fire Entry Coverall and the AM32 Fire Entry Gloves.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer
Mid Layer: Carbon Felt 120gm - 5 layers
Inner Layer: Aramid Viscose 125gm - 1 layer
Soles: Para-aramid 645gm
Silver, One Size



AM33 Replacement Glass Visor

EN 166:2004 , EN 171:2003

Replacement visors available to purchase separately.



Clear, One size
Gold, One Size



Technically Engineered For Extreme Conditions

IGNIS



AM30 Fire Entry Coverall



EN 1486:2007

This seven layered, one-piece coverall, constructed with our high performance Ignis fabric, remains lightweight and extremely flexible. Certified to EN1486:2007, this suits is tailored to be worn with a self contained breathing apparatus (SCBA) for protection in hostile atmospheres. Faceshield protection is provided by a multi-layered system of tempered glass and reflective gold on a heat resistant lens. The hoods have excellent lateral and vertical visibility.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer
Mid Layer: Carbon Felt 120gm - 5 layers
Inner Layer: Aramid Viscose 125gm - 1 layer
Silver, M-2XL



Ultra Flexible Fabric

IGNIS “Proximity” Range

The Portwest Proximity Suit is a 3 piece ensemble consisting of a Coverall, Hood and Overboots. Certified and designed to be worn together, the Proximity Suit provides protection in the most extreme radiant heat conditions while maintaining the comfort and quality features that our customers demand.



AM22 Proximity Overboots

EN11612:2009 A1, B2,C4,D3,E3.

Designed to fit over all boot sizes and to be worn together with the AM20 Proximity Coverall and the AM21 Hood, the heat resistant Proximity Overboots reflect radiant heat while the carbon lining helps reduce heat conduction. The Para-aramid soles offer excellent abrasion resistance.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer
Mid Layer: Carbon Felt 120gm - 1 layer
Inner Layer: Aramid Viscose 125gm - 1 layer
Soles: Para-aramid 645gm
Silver, One Size



AM21 Proximity Hood

EN11612:2009 A1, B2,C4,D3,E3.

INNER HELMET: EN397

TEMPERED GLASS VISOR: EN 166:2004

REFLECTIVE GOLD VISOR: EN 171:2003

Designed to sit comfortably and to be worn with the AM20 Proximity Coverall and the AM22 Proximity Overboots, the Proximity Hood features an inner hard cap that complies with EN397. The gold colour, removable glass visor with the internal protective layer made of polycarbonate allows for excellent lateral and vertical visibility. An allowance is also made for a face mask and dispenser.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer
Silver, One Size



AM20 Proximity Coverall

EN11612:2009 A1, B2, C4, D3, E3. EN340:2004

Constructed using the high performance IGNIS fabric, and combined with a carbon felt quilted to an Aramid Viscose inner layer, this one piece coverall remains lightweight and extremely flexible. Designed to be worn with the AM21 Hood and the AM22 Overboots. Features include an integrated back pocket on the back for a breathing apparatus, inner and outer front protective flap opening and velcro adjustment on the side leg. All seams are assembled using a strong Kevlar thread.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer
Mid Layer: Carbon Felt 120gm - 1 layer
Inner Layer: Aramid Viscose 125gm - 1 layer
Silver, M-2XL



Tapered sleeve and leg end, designed to sit comfortable beneath gloves and overboots



Kevlar® stitching throughout

Concealed front velcro opening

AM23 / AM24 Proximity / Approach Gloves

EN388 4-4-4-3, EN407 4-3-3-3-4-X, EN420 LEVEL 3

Available in a choice of two cuff lengths, the AM23(35cms) and the AM24 (45cms) reflect radiant heat while the carbon inner lining helps reduce heat conduction. The Para-aramid palms offer excellent abrasion resistance.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer
Mid Layer: Carbon Felt 120gm - 1 layer
Inner Layer: Aramid Viscose 125gm - 1 layer
Silver
AM23 = 35cm
AM24 = 45cm



AM24 (45 cm)

AM23 (35 cm)



4.4.4.3



4.3.3.3.4.X

Velcro adjustment on outer leg

Innovative Fabric - Maximum Protection 7



"Approach" Range

Extremely lightweight and flexible, the Ignis Approach Range is perfect for applications involving very high temperatures, such as steel mills and smelting facilities. Garments in the Approach Range are manufactured with minimal bulk insulation layers allowing additional flexibility and freedom of movement.



Concealed front velcro opening

AM11 Lined Approach Coat - 3 Layer
AM10 Unlined Approach Coat - 1 Layer



AM11: EN11612:2009 A1, B2,C4,D3,E3, EN340:2004
AM10: EN ISO 11612:2009 A1, B1,C3,E3, EN340:2004

Constructed with the highly reflective Ignis fabric and designed to be used where high heat reflective properties are required. The AM11 lightweight lined coat is similar in design to the AM10 but is constructed with an additional inner thermal layer increasing the heat resistant properties.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer

AM11: Mid Layer: Carbon Felt 120gm - 1 layer

AM11: Inner Layer: Aramid Viscose 125gm - 1 layer

Silver, M-2XL



AM15 Lined Approach Trousers



EN11612:2009 A, B1,C3 EN340:2004

Worn as part of a set, the aluminised trousers provides the wearer with protection from radiant heat and high temperatures. Features include an ergonomically shaped knee, back bib and elasticated adjustable shoulder braces.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer

Mid Layer: Carbon Felt 120gm - 1 layer

Inner Layer: Aramid Viscose 125gm - 1 layer

Silver M-2XL



AM11:



AM10:



IGNIS



AM14 Lined Approach Jacket



EN11612:2009 A, B1,C3 EN340:2004

The aluminised jacket is constructed with our high performance Ignis fabric, offering the wearer protection against high temperatures and radiant heat. Worn as part of a set, the articulate design including the raglan sleeve and upper back bellows allows complete freedom of movement. Features include an inside velcro closure pocket.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer

Mid Layer: Carbon Felt 120gm - 1 layer

Inner Layer: Aramid Viscose 125gm - 1 layer

Silver, M-2XL



AM12 Unlined Approach Bib Apron



EN ISO 11612 A1, B1,C3,E3, EN340:2004

Perfect for the demands of a foundry, this bib apron will protect the wearer from radiant heat and molten iron splashes. Finished size is 70cms wide X 100cms in length.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer

Silver, 70cm x 100cm



AM13 Approach Gaiters



EN ISO 11612 A1, B1,C3,E3,

Designed to fit over all boot sizes, these heat resistant gaiters reflect radiant heat. Features include velcro closure on the centre back and stud closure sole strap.



IGNIS, 95% Meta-aramid, 5% Para-aramid, 330gm - 1 layer

Silver, One Size



Extremely Lightweight And Flexible

solar

The Solar Fire Suit can endure high levels of heat for brief periods of time without themselves combusting and burning and therefore minimises body burn percentage when exposed to heat and flames.

The Solar Structural Fire Suits have three components: an outer shell, a moisture barrier, and a thermal barrier, all serving a different function. The outer layer protects against flame injury and burns caused by conductive heat. The moisture barrier protects against water penetration and allowing internal moisture vapour to escape.

It is imperative that the layers are kept dry to avoid the transfer of heat in a convective manner from the outer layer through the layers to the skin. The inner thermal barrier and lining offers protection against heat from proximity to flame. In between each of these layers are pockets of air and together with the fabric layers, they help to further insulate the wearer from the extreme environments of fires.

Structural Fire Suit Range



EN 469

Xf2
Xr2
Y2
Z2

This European Standard specifies minimum levels of performance requirements for protective clothing to be worn during fire fighting operations and associated activities.

Suits shall provide protection for the firefighters torso, neck, arms to the wrists, and leg to ankles during firefighting activities.

A generous overlap suitable for all body movements shall be maintained between the jacket and trousers.

EN469:2006 Level 2 Fire Suits

EN469:2006

Flame Spread
Heat Transfer (Flame)
Heat Transfer (Radiation)
Residual Strength
Heat Resistance
Tensile Strength
Tear Strength
Surface Wetting
Dimensional Change
Resistance to penetration by Liquid Chemicals
Resistance to Water Penetration
Water Vapour Resistance
Ergonomic Requirements
Visibility – Reflex
Whole Garment Testing (Optional)

Explaining the standard

EN469:2006 Level 2 Fire Suits is the higher requirement for structural fire fighting and is used by professional trained firefighters.



EN 469

Xf2
Xr2
Y2
Z2

All Level 2 Fire Suits will be marked internally as follows:

- Xf2 Level 2 – Performance in Heat Test: Flame.
- Xr2 Level 2 – Performance in Heat Test: Radiation.
- Y2 Level 2 – Resistance against Water Penetration
- Z2 Level 2 – Resistance against Water Vapour Resistance

Level 2 Suits must include a waterproof moisture barrier

Types of Heat Transfer:

There are three types of heat transfer in a fire that could cause burns:

Conduction:

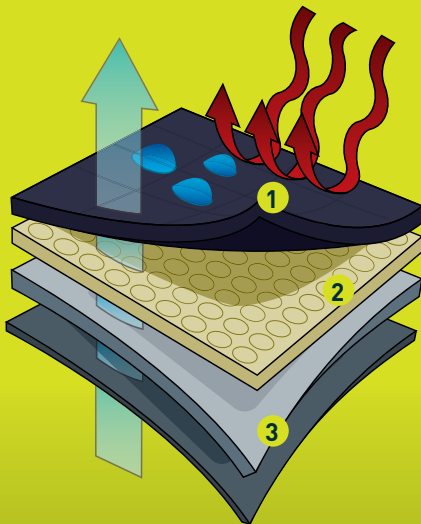
A conductive heat burn will occur if the wearer touches a heated surface or object.

Convection:

Convected heat travels through the air, even if there is no immediate appearance of fire.

Radiation:

Radiation is the transfer of heat into a material, directly from flames or reflected from hot objects.



Layering Structure

Solar Structural Fire Suits certified to EN469: 2006, Level 2 are constructed with the following layers:

① Outer Layer:

The outer shell layer is a high-heat and flame resistant material, which provides initial protection against heat, flame and abrasion and protects the inner liner.

② Moisture Barrier:

The PU coated moisture barrier reduces the amount of water from the environment that might penetrate to the inside of the garment. Another important aspect of moisture barrier protection is the ability to "breathe", promoting evaporative cooling of the fire fighter's body.

③ Thermal Liner:

The thermal barrier consists of 2 layers of fabric - an inner lining attached to an insulation layer. Together these provide an air pocket to protect the wearer against external heat sources. The suits are designed to be as light as possible without compromising the safety of the wearer, or to the quality of the garment.



Quick Release zip

The Quick Release zip features in all the Solar Fire Suits. The design of this zip enables the wearer to quickly open the zip from the top. By pulling up the slider sharply, the slider will become disengaged and release from one side of the zipper teeth. This acts as a quick opening and is used for safety reasons in protective clothing.

solar 5000

Structural Fire Suit



EN 469

Xf2
Xr2
Y2
Z2

EN469:2006 Level 2

PBI Matrix™ employs a durable power grid, weaving high-strength Aramid filaments into the PBI Gold fabric™ to enhance and reinforce its resistance to wear and tear while retaining its superior flame and heat protection. The PBI Matrix™ outershell ensures the Solar 5000 Suit delivers outstanding thermal protective performance and resistance to high heat and direct flame, while also offering enhanced abrasion, durability and tear resistance. The ergonomic, innovative and functional design reduces firefighters stress while making it easier to bend, crawl, kneel or climb.

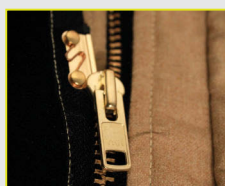


FB50 5000 Overcoat

EN469:2006 LEVEL 2

Exceeding all the requirements of EN469, the Solar FB50 Overcoat is perfect for today's demands of structural firefighting. Features include brass quick release zip, underarm gusset for increased mobility, para-aramid knitted cuffs with thumb-loop and aramid thread used throughout on all seams and top sewing. The collar is designed to sit neatly with all helmets.

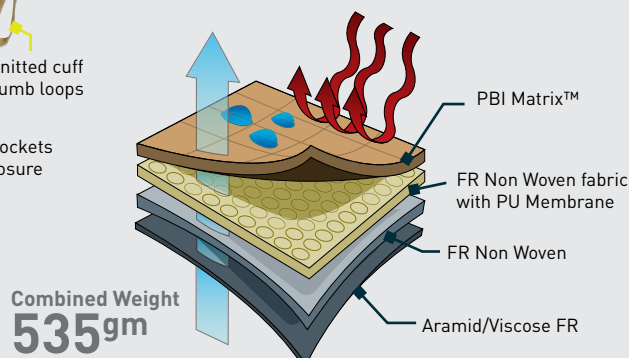
- PBI Matrix™, 60% Kevlar®, 40% PBI Fibres™, 205gm**
- Moisture Barrier: FR non woven with PU membrane**
- Thermal Layer: FR non-woven**
- Inner Thermal Layer: Aramid/Viscose FR Gold, S-2XL**



Quick release front zip



PBI™ Matrix fabric



solar

Elastic at side waist

25cm front fly opening with stud closure

Leg hems wide enough to fit over boots

Anti wicking strip at hem

3M Yellow / Silver Reflex

FB51 5000 Over trousers

EN469:2006 LEVEL 2



Like the FB50 Overcoat, the FB51 Solar Over trousers are completely lined and waterproof. The elasticated side waistband allows the garment to sit comfortably on the waist when worn. Features include EN471 compliant reflex, antiwicking strip on the leg ends and velcro closure front fly with a protective inner gusset.



PBI Matrix™, 60% Kevlar®, 40% PBI Fibres™, 205gm
Moisture Barrier: FR non woven with PU membrane
Thermal Layer: FR non-woven
Inner Thermal Layer: Aramid/Viscose FR
Gold, S-2XL



FR,IW

Kevlar® is a trademark of company DuPont

PBI Matrix™ in logo form is a registered trademark of PBI Performance Products Inc.®

Enhanced Abrasion And Tear Resistance

solar 4000

Structural Fire Suit

DuPont™
NOMEX®
PERFORM WHEN THE HEAT'S ON

3M Scotchlite™
Reflective Material

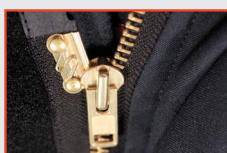


Xf2
Xr2
Y2
Z2

EN 469

EN469:2006 Level 2

Extremely lightweight at 510gm, the 4 layer assembly provides exceptional heat resistance with a 2nd degree burn result of just 1% in the Dupont Thermo-Man® test. An industry bestseller, the Solar 4000 is ergonomically engineered to reduce fabric bulk while maximizing mobility.



Quick release front zip

FB40 4000 Overcoat

EN469:2006 LEVEL 2



EN 469

Worn as part of a two piece suit and combined with 4 layers of fabrics including a moisture barrier and thermal barrier, the FB40 Overcoat remains lightweight and extremely flexible allowing maximum freedom of movement. The red-silver-red reflex combined with the contrast colour panel on the upper back enables individual identification. Knitted Nomex® cuffs with thumb-loops hold the sleeve end in place when gloves are worn. The quick release brass zip aids a speedy removal if required.



Nomex® Outershell Tough, Ripstop, 195gm



Moisture Barrier: FR non woven with PU membrane



Thermal Layer: FR non-woven



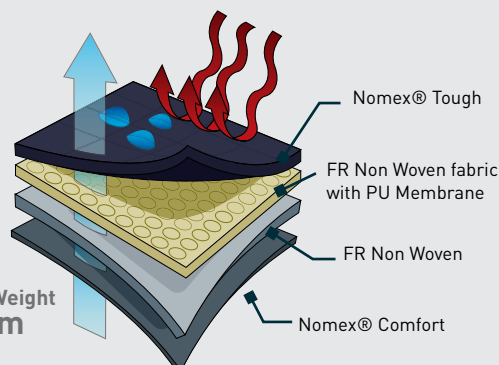
Inner Thermal Layer: Nomex® Comfort



Navy, S-2XL



FR,IW



Combined Weight
510gm

solar

Braces designed to sit comfortably on shoulders

25cm front fly opening

Cargo pockets on side legs

Neoprene anti wicking strip at leg ends

3M Red-Orange / Silver Reflex

FB41 4000 Over trousers

EN469:2006 LEVEL 2



Features on the trousers include cargo pockets on the side legs, tapered leg end with a zip and gusset to allow for expansion if required when worn over boots. Side opening on the knees pocket allows for removal or addition of kneepads.



Nomex® Outershell Tough, Ripstop, 195gm

Moisture Barrier: FR non woven with PU membrane

Thermal Layer: FR non-woven

Inner Thermal layer: Nomex® Comfort Navy, S-2XL



FR,IW

Nomex® is a trademark of company DuPont

Exceptional Heat Resistance

solar 3000

Structural Fire Suit

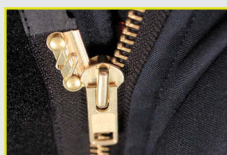


Xf2
Xr2
Y2
Z2

EN 469

EN469:2006 Level 2

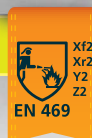
Incorporating a Nomex® Outershell, the Solar 3000 Structural Fire Suit has been developed to offer maximum protection for the firefighters while at the same time guaranteeing superior comfort. Providing excellent colour and light fastness, the Nomex® outer is also extremely durable and stable due to the use of both the Meta-aramid and Para-aramid fibres.



Quick release front zip

FB30 3000 Overcoat

EN469:2006 LEVEL 2



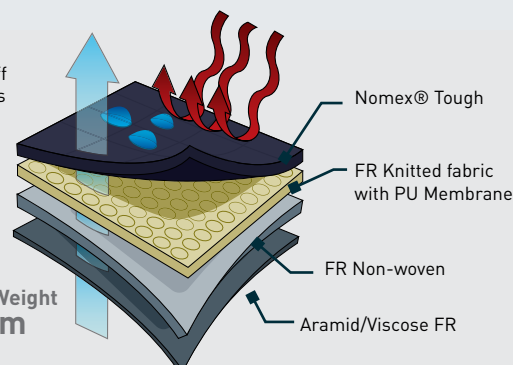
Constructed using the high performance Nomex Tough fabric, and designed to be worn with the Solar FB31 Over trousers, the Solar FB30 Overcoat provides ideal protection against the risks of exposure associated with fire fighting and related tasks. Features include a quick release front brass zip, lower front pockets with press stud for holding gloves and knitted cuffs with thumb-loops to hold sleeves in place.



Nomex® Outershell Tough, Twill, 195gm
Moisture Barrier: FR Knitted fabric with PU membrane

Thermal Layer: FR non-woven

Inner Thermal Layer: Aramid/Viscose FR Navy, S-2XL



Combined Weight
600gm

solar

Braces designed to sit comfortably on shoulders

25cm front fly opening

3M Yellow/Silver Reflex

Neoprene anti wicking strip at leg ends

FB31 3000 Over trousers

EN469:2006 LEVEL 2

Designed to protect the lower body, the Solar FB31 Over trousers are constructed with the same layers as the Solar FB30 Overcoat. The design offers high freedom of movement. Features include a low-cut crotch seam, non detachable shoulder braces, side elastic and bellow front fly.



Nomex® Outershell Tough, Twill, 195gm



Moisture Barrier: FR Knitted fabric with PU membrane



Thermal Layer: FR non-woven



Inner Thermal Layer: Aramid/Viscose FR



Navy, S-2XL



FR,IW

Nomex® is a trademark of company DuPont

High Performance Nomex® 17

solar 2000

Structural Fire Suit

3M Scotchlite™
Reflective Material

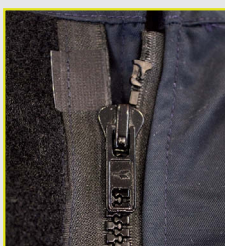


Xf2
Xr2
Y2
Z2

EN469:2006 Level 2

Offering exceptional value the Solar 2000 Structural Fire Coat and Trousers provides a practical and comfortable option that conforms to EN 469:2005, Level 2 performance when worn as a suit. The Solar 2000 was designed and developed to meet the demanding performance needs and work environments of a firefighter.

EN 469



Quick release front zip

FB20 2000 Overcoat

EN469:2006 LEVEL 2

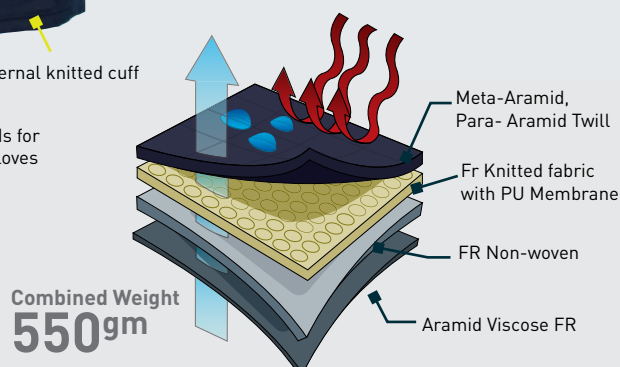


Offering complete upper body protection, the Solar FB20 Overcoat has been designed with the safety and protection of the wearer in mind. Features include a quick release zip, 3M triple trim reflex that conforms to EN471, underarm gusset for increased mobility, knitted cuffs with thumb-loops to hold sleeves in place.

- Meta-aramid, Para-aramid, Antistatic fibre, Twill 215gm**
- Moisture Barrier: FR Knitted fabric with PU membrane**
- Thermal Layer: FR non-woven**
- Inner Thermal Layer: Aramid/Viscose FR Navy, S-2XL**



FR, IW



solar

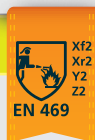
Elastic in side waist

25cm front fly opening

3M Yellow/Silver Reflex

FB21 2000 Over trousers

EN469:2006 LEVEL 2



Constructed with the same layers as the Solar FB20 Overcoat, the FB21 Over trousers are designed to protect fire fighters during fire-fighting and technical operations. Features include adjustable, non-detachable shoulder braces, stud closure for extra security on top of fly, elasticated waistband to allow garment sit comfortable and neatly when worn and a leg end width that is designed to fit over boots.



Meta-aramid, Para-aramid, Antistatic Fibre, Twill 215gm

Moisture Barrier: FR Knitted fabric with PU membrane

Thermal Layer: FR non-woven

Inner Thermal Layer: Aramid/Viscose FR

Navy, S-2XL



FR,IW

Exceptional Value

EN STANDARDS



EN ISO 11612 The performance requirements set out in this international standard are applicable to garments which could be worn for a wide range of end uses, where there is a need for clothing with limited flame spread properties and where the user can be exposed to radiant or convective or contact heat or molten metal splashes.

- Code A: Limited flame spread
Code B: Protection against Convective Heat - 3 levels
Code C: Protection against Radiant Heat - 4 levels
Code D: Protection against Molten Aluminium Splash - 3 levels
Code E: Protection against Molten Iron Splash - 3 levels
Code F: Protection against Contact Heat - 3 levels



EN531:1995 - Harmonised European standard for protective clothing for industrial workers exposed to heat (excluding firefighters' and welders' clothing)

- The following categorisation states performance levels:
A - limited flame spread
B - protection against convective heat
C - protection against radiant heat



EN1149:2008 - Is the harmonised European standard for protective clothing- protection against the danger caused by static electricity. This standard is not applicable for protection against mains voltages.

- EN1149-1:1996 Test method for surface conducting fabrics.
- EN1149-3:2004 Charge decay test method for all fabrics.
- EN1149-5:2008 Performance requirements.



ATEX Directive
The ATEX Directive defines what equipment is permitted in an environment where an explosive atmosphere may exist. Portwest recommend using garments certified to EN1149 and EN ISO 11611 for added protection in an ATEX environment.



EN ISO 14116 This standard specifies the performance requirements for the limited flame spread properties of materials, material assemblies and protective clothing in order to reduce the possibility of the clothing burning and thereby itself constituting a hazard. Additional requirements for clothing are also specified.



EN13034:2005 + A1:2009
Protective Clothing against Liquid Chemicals

EN 13034
Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals (Type 6 and Type PB [6] equipment). This standard specifies the minimum requirements for limited use and reusable limited performance chemical protective clothing. Limited performance chemical protective clothing is intended for use in cases of a potential exposure to a light spray, liquid aerosols or low pressure, low volume splashes, against which a complete liquid permeation barrier (at a molecular level) is not required.

The standard covers both chemical protective suits (Type 6) and partial body protection (Type PB[6]). Chemical Protective suits (Type 6) cover and protect at least the trunk and the limbs, e.g. one piece coveralls or two piece suits, with or without hood, boot-socks or boot covers. Partial body protection of similar limited performance (Type PB [6]) covers and protects only specific parts of the body, e.g. coats, aprons, sleeves etc.



EN ISO 11611 This international standard specifies minimum basic safety requirements and test methods for protective clothing for use in welding and allied processes (excluding hand protection).

The international standard specifies two classes with specific performance requirements.
Class 1 is protection against less hazardous welding techniques and situations, causing lower levels of spatter and radiant heat.
Class 2 is protection against more hazardous welding techniques and situations, causing higher levels of spatter and radiant heat.



Russian GOST-R Certification
Many Portwest products are now certified to GOST-R standards, meaning that these products are certified, for sale and use in the Russian Federation market. The GOST-R certification process has been created to protect consumers rights and to avoid the import of poor quality products. Any products entering the Russian Federation market should meet national quality standards.
The certification process for products may be either obligatory or voluntary, for which there are regulations in place. This involves both domestically produced, and imported goods into Russia.

Obligatory certificate
An obligatory certificate contains a profile of the goods

and confirms their compliance with the standards as listed on the certificate of conformance.

Inspection is carried out by a specialist, on the production premises of the goods that require certification. On the basis of results obtained from this, and through testing samples of the goods in a laboratory, an appropriate certificate of compliance is issued.

Voluntary Certificates

This type of certificate is for products where no formal legislation is laid down for their certification, but the importer/exporter still wishes to prove their high quality.
A certificate of conformance may be issued either for a batch of goods or on ongoing production and its



EN61482-2:2007/ IEC61482:2009
This standard investigates the fabric and garments ability to protect against the thermal affects of an electric arc event. This can be done via two test methods;

IEC 61482-2 ATPV or E _{BT50} = xxx cal/cm ² or Class 1 or Class 2	OR	IEC 61482-2 ATPV or E _{BT50} = xxx cal/cm ² and Class 1 or Class 2
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Box Test Method EN61482-1-2
The fabric/garment is exposed to an electric arc confined in a specific box with a specific electrode arrangement for 0.5 seconds. Class 1 is to a current of 4 kA arc, Class 2 is to a current of 7 kA arc. Test conditions for class 1 & 2 try to stimulate typical exposure conditions for a short circuit current of 4kA and 7kA respectively.

Open Arc Method EN61482-1-1
The ATPV result (expressed in cal/cm²) represents the maximum incident thermal energy in units of energy per square area that a fabric can support before the wearer will suffer 2nd degree burns.

This method tests the fabric with an 8 kA arc for various incident durations.

Workers are assumed to be safe if the arc rating of their clothes exceeds the electric arc incident energy calculated in the worst case scenario of a risk assessment.

Garments can be layered to achieve an overall ATPV Rating. For Example, Thermals may achieve an ATPV of 4.3 Cal/m², and an outer coverall may achieve an ATPV of 13.6Cal/cm². However the combination ATPV will be greater than the sum of the two single layers, as the air gap between the two layers affords the wearer additional protection.

Hazard / Risk Category	Clothing Description	Required Minimum Arc Rating of PPE cal/cm ²
1 HRC	Arc-rated FR shirt and FR trousers or FR coverall	4
2 HRC	Arc-rated FR shirt and FR trousers or FR coverall	8

validity varies. If a certificate is issued for a batch of goods, it will be valid for one shipment. For ongoing production items, certificates of conformance may be valid from 1 to 3 years. Portwest have opted for the latter version, so all our GOST-R certificates are valid for the maximum period of 3 years.

These standards are currently being reviewed and updated by the Technical Regulation to Customs Union TR CU 019/2011 (Safety of personal protective equipment) with the purpose of establishing the uniform requirements for PPE. Portwest will be updating all their products to the new legislation accordingly, when the certification bodies receive accreditation to do so. The new legislation will be valid in three countries - Russia, Belarus and Kazakhstan whilst at the moment the GOST R certificate of conformance covers the Russian Federation only.

FABRIC REFERENCE GUIDE

Fabric	Style Code	 EN 1149	 EN ISO 11612	 EN ISO 11611	 EN 471	 EN 61482-2	 EN ISO 14116	 EN 13034	 EN 343	 EN 15614	 GOST-R
 NOMEX PERFORM WHEN THE HEAT'S ON	NX50	✓	✓			✓					✓
 ARAFLAME FLAME RESISTANT	NX22	✓	✓	✓		✓					✓
 MODAFLAME FLAME RESISTANT	MV28	✓	✓	✓	✓	✓					✓
	MX28	✓	✓	✓		✓					✓
 MODAFLAME FLAME RESISTANT	FR77	✓	✓		✓						
	FR10, FR11, FR12, FR14, FR15, FR16, FR18 FR19	✓	✓								✓
	FR80	✓	✓	✓		✓		✓			✓
 BIZFLAME FLAME RESISTANT	FR60, FR61, FR62, FR63	✓	✓	✓	✓	✓		✓			✓
	FR50	✓	✓	✓		✓					✓
 BIZFLAME FLAME RESISTANT	FR52, FR28, FR21, FR53, FR58, FR59, FR55, FR56, FR57	✓	✓	✓							✓
	FR52, FR28, FR21, FR53, FR58, FR59, FR55, FR56, FR57	✓	✓	✓							✓
FLAMESAFE	S777		EN531						✓		✓
 BIZFLAME FLAME RESISTANT	FR70, FR73				✓		EN533				✓
	FR71	✓			✓		✓				
	FR75, FR76				✓		✓				
	FR30	✓					✓				
	FR31	✓			✓		✓				
	SK20	✓	EN531								
 BIZFLAME FLAME RETARDANT	S780, S781, S778,	✓	EN531		✓		EN533		✓		
	S782, S779, S773	✓			✓		✓		✓		
 BIZWELD FLAME RESISTANT	BIZ1, BIZ2, BZ30, BIZ3, BIZ4, BIZ5, BIZ6, C030, BZ11, BZ12		✓	✓							✓
 BIZWELD FLAME RESISTANT	BIZ7	✓	✓	✓	✓						✓
 BIZWELD FLAME RETARDANT	BZ40	✓	✓	✓		✓					✓
 WILDLAND FIRE BIZFLAME FLAME RETARDANT	FR98	✓	✓							✓	✓
 SEALTEN FLAME	FR41, FR43	✓			✓		✓	✓	✓		
	FR46, FR47	✓					✓	✓	✓		

ANTI-STATIC
ARAFLAME™
FLAME RESISTANT

This fabric is made from 93% Meta-aramid which is an inherently flame resistant fibre that does not melt, drip or continue to burn, providing natural flame resistance. These fibres are blended with 5% Para-aramid for strength and the fabric is inherently antistatic by also incorporating 2% carbon fibre. It has a fluorocarbon finish providing oil and water repellency

DuPont
NOMEX®
PERFORM WHEN THE HEAT'S ON

DuPont™ and Nomex® are registered Trademarks of E.I. du Pont de Nemours and Company used under license to **Portwest LTD.**

Kevlar® is a registered trademark of E.I. du Pont de Nemours and Company. **Nomex® Comfort** is made from 93% **Nomex®**, 5% **Kevlar®** and 2% P-140 carbon fibre.

FR Aramid sewing thread

Concealed 2-way front brass zip

Double stitched, industrial wash, flame retardant, reflective tape

Triple stitched seams

Concealed side access pockets

ANTI-STATIC
ARAFLAME™
FLAME RESISTANT

NX22 ARAFLAME Coverall

EN ISO 11612 A1+A2, B1, C1, F1,
EN ISO 11611 CLASS 1 A1 + A2
EN1149-5
EN 61482-1-2 CLASS 1
GOST- R CERTIFIED



ARAFLAME 220g
Orange M-3XL



FR,IW

DuPont
NOMEX®
PERFORM WHEN THE HEAT'S ON

NX50 Coverall made from Nomex® Comfort

EN ISO 11612 A1+A2 B1, C1, F1,
EN1149-5
EN 61482-1-2 CLASS 1
GOST- R CERTIFIED



Nomex® Comfort 220g
Dark Navy and Orange M-3XL



FR,IW

ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

Modaflame™ is one of the inherent fabric developments available exclusively from **Portwest**.

The fibres used in this fabric include 60% Modacrylic which is an inherently flame resistant fibre that does not combust, the fibres are difficult to ignite and will self-extinguish, providing natural flame resistance. The fabric also has a fluorocarbon finish providing oil and water repellency and helps to protect against stains.

FR Aramid
sewing
thread

1 Back hip
pocket with
stud flap
closure

Concealed
side access
pockets

ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

MX28 MODAFLAME Coverall

EN ISO 11612 A1+A2, B1, C1, FI,
EN ISO 11611 CLASS 1 A1 + A2
EN1149-5
EN 61482-1-2 CLASS 1 7.1 cal/cm
GOST- R CERTIFIED



MODAFLAME 280g
Orange S-3XL

1
HRC



GOST-R



FR,IW



Triple stitched
seams

FR Aramid
sewing
thread

Double stitched,
industrial wash,
flame retardant,
reflective tape

ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

MV28 Hi Vis MODAFLAME Coverall

EN ISO 11612 A1+A2, B1, C1, FI,
EN ISO 11611 CLASS 1 A1 + A2
EN1149-5
EN471 CLASS 3:2
EN 61482-1-2 CLASS 1 7.1 cal/cm
GOST- R CERTIFIED



MODAFLAME 280g
Hi Vis Yellow/navy S-3XL

1
HRC



GOST-R



FR,IW



Maximum Hazard Protection

ANTI-STATIC MODAFLAME™ FLAME RESISTANT

KNIT

NEW

Constructed from an inherently fire resistant yarn of 60% modacrylic, 39% cotton and 1% carbon fibre.

The fabric has the ability to withstand heat and protect against the danger caused by static electricity which will not diminish with repeated laundering.

Tested to meet and adhere to the required EN Standards, the Modaflame™ Knit range is strong, durable and highly innovative.

All

ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

Garments confirm to these standards



EN 1149



EN ISO 11612



GOST-R



FR77 Flame-Resistant Anti-Static Hi-Vis Long sleeve Polo shirt

EN471 CLASS 3:2,
EN 11612 A1, B1, F1.
EN1149-5

The lightweight, modacrylic fabric together with the reflective strips provide the wearer with advanced visibility and protection in hazardous situations. Features include concealed front button opening and contrast colour on the collar and cuffs.



Modaflame Knit 210gm
Yellow, S-3XL



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

FR10 Flame-Resistant Anti-Static Long Sleeve Polo Shirt

EN11612 A1, B1, C1
EN1149-5
GOST- R CERTIFIED

Convenient for cooler weather, and ideal for workers in the industry exposed to heat. The stylish design of the garment has a 3-button placket, finished with a ribbed collar and cuffs.



MODAFLAME™ KNIT 200g
Navy S-3XL



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

FR12 Flame-Resistant Anti-Static Long Sleeve Sweatshirt

EN11612 A1, B1, C1.
EN1149-5
GOST- R CERTIFIED

Ideal for workers exposed to heat in their working environment. Features on this garment include raglan sleeve, round neck, ribbed collar and cuffs, making it comfortable and easy to wear.



MODAFLAME™ KNIT 300g
Navy S-3XL



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

KNIT



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

FR11 Flame-Resistant Anti-Static Long Sleeve T-Shirt

EN11612 A1, B1, C1.
EN1149-5
GOST- R CERTIFIED

High quality construction and premium materials set our T-Shirt aside from its competitors.



MODAFLAME™ KNIT 200g
Navy S-3XL



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

FR14 Flame-Resistant Anti-Static Leggings

EN ISO 11612 A1, B1, F1
EN 61482-1-1 4.3 cal/cm²
EN1149-5
GOST- R CERTIFIED

Designed for cooler conditions. The elasticated waistband allows freedom of movement and the ribbed hem cuffs help trap in heat.



MODAFLAME™ KNIT 200g
Navy S-XXL



NEW



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

FR15 Flame Resistant Anti-Static Vest

EN11612 A1, B1, F1,
EN 61482-1-1 4.3 cal/cm²
EN1149-5

Providing comfort and protection this vest fits seamlessly under clothing for a warm extra layer.



MODAFLAME™ KNIT 200g
Navy S-3XL



NEW



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

FR16 Flame Resistant Anti-Static Boxer Shorts

EN11612 A1, B1, C1,
EN 61482-1-1 4.3 cal/cm²
EN1149-5

Excellent quality boxer shorts, for the last line of defence. European styling that provides support and protection.



MODAFLAME™ KNIT 200g
Navy S-XXL



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

FR18 Flame - Resistant Anti-Static Balaclava

EN ISO 11612 A1, B1, F1
EN 61482-1-1 4.3 cal/cm²
EN1149-5
GOST-R CERTIFIED

Ideal for cooler conditions to keep the head and neck warm. Wear with the FR10, FR11 or FR12.



Modaflame™ knit 200g
Navy - One size



ANTI-STATIC
MODAFLAME™
FLAME RESISTANT

FR19 Flame - Resistant Anti-Static Neck Tube

EN ISO 11612 A1, B1, F1
EN 61482-1-1 4.3 cal/cm²
EN1149-5
GOST-R CERTIFIED

Designed for added protection for the neck. Wear with the FR10, FR11, FR12 or FR15.



Modaflame™ knit 200g
Navy - One size



Outstanding Comfort And Protection



A BizFlame™ Multi-norm garment is a high quality, fully certified product that offers maximum protection.

The multi risk-protective clothing combines a wide usability with optimal safety and protection for the wearer. The fluorescent colour and flame-resistant reflective striping protect the wearer in situations of poor visibility.



FR61 HiVis Multi-Norm Jacket

EN ISO 11612 A1 + A2, B1, C1, E3 & F1
EN ISO 11611 CLASS 1 A1 + A2
EN471 CLASS 3:2
EN 61482-1-2 CLASS 1 13.6 cal/cm²
EN13034 (TYPE 6)
EN1149-5
GOST- R CERTIFIED

Features include twin-stitched Hi-Vis strips on chest, arms and shoulders, concealed 2-way front brass zip and two concealed front chest pockets with piping detail.



BIZFLAME™ MULTI 345g
Yellow/Navy S-3XL



FR63 HiVis Multi-Norm Bib and Brace FR62 HiVis Multi-Norm Trousers

EN ISO 11612 A1 + A2, B1, C1, E3 & F1
EN ISO 11611 CLASS 1 A1 + A2
EN471 CLASS 2:2
EN 61482-1-2 CLASS 1 13.6 cal/cm²
EN13034 (TYPE 6)
EN1149-5
GOST- R CERTIFIED

These comfortable garments offer protection against multiple risks. Features include twin-stitched hi-vis strips on the legs and waist, front brass zip and two front patch pockets, a back pocket with flap and a lower tool pocket with flap.



BIZFLAME™ MULTI 345g
Yellow/Navy S-3XL





BSIF Safety Excellence Award
FR60 Hi-Vis Multi Norm Coverall



Large Concealed Chest Pockets.

Double Stitched

Two-tier Kneepad Pockets.



Concealed front stud closure

Concealed side access pocket

Ruler pocket with stud flap closure

Knee pad pockets



FR60 Hi-Vis Multi-Norm Coverall

EN ISO 11612 A1 + A2, B1, C1, E3 & F1
EN ISO 11611 CLASS 1 A1 + A2
EN61482-1-2 CLASS 1 13.6 cal/cm²
EN13034 TYPE 6
EN471 CLASS 3:2
EN1149-5
GOST- R CERTIFIED

This multi-norm coverall is constructed with a highly innovative high visibility, flame-resistant, multi-norm fabric. The garment also has patented knee pad pockets designed with an innovative two tier adjustable system.

BIZFLAME™ MULTI 345g
Yellow/Navy S-3XL



FR,IW



2
HRC



FR80 Multi-Norm Coverall

EN ISO 11612 A1+A2, B1, C1, E3, F1
EN ISO11611 CLASS 1 A1 + A2,
EN 61482-1-2 CLASS 1 13.6 cal/cm²
EN13034 TYPE 6,
EN1149-5
GOST- R CERTIFIED

The high collar and studded flaps on each pocket provide maximum protection.

BIZFLAME™ MULTI 345g
Navy S-3XL



2
HRC





BizFlame™ Plus has been developed and designed using a highly innovative flame retardant fabric with added anti-static properties. Constructed from 99% cotton and interwoven with 1% carbon yarns.



Tab velcro adjustable cuff



Tab velcro adjustable cuff

Triple stitched seams



COLOUR	REG	TALL
NAVY	XS-4XL	M-3XL
ROYAL	S-3XL	
RED	S-3XL	
ORANGE	XS-4XL	M-3XL
WHITE	S-2XL	



FR50 Anti-Static Coverall 350gm

EN ISO 11612 A1+A2, B1, C1, F1, E2,
EN ISO 11611 CLASS 2 A1+A2,
EN 61482-1-2,
EN1149-5
GOST- R CERTIFIED

Constructed with a highly innovative flame-retardant fabric with high visibility reflective tape double stitched for enhanced visibility. The garment also has patented knee pad pockets designed with an innovative two tier adjustable system.

BIZFLAME™ PLUS 350g
Orange, Navy, Red, Royal, White Reg
Orange and Navy Tall



FR52 Padded Winter Anti-Static Coverall 350gm

EN ISO 11612 A1+A2, B1, C1, F1,
EN ISO 11611 CLASS 2 A1+A2,
EN1149-5
GOST- R CERTIFIED

This coverall has a full quilt lining for added warmth.

BIZFLAME™ PLUS - 99% Cotton, 1% Carbon fibres 350g.
100% Polyester flame retardant wadding 100g.
100% Cotton flame retardant Lining 170g
Navy and Orange S-3XL



FOUR STYLES FOR FOUR SEASONS



FR28 Light Weight Anti-Static Coverall 280gm

EN ISO 11612 A1+A2, B1, C1,
EN ISO 11611 CLASS 2 A1+A2,
EN1149-5
GOST- R CERTIFIED

Constructed with lighter weight highly innovative flame-resistant BizFlame™ Plus fabric.

 **BIZFLAME™ PLUS - 99% Cotton, 1% Carbon fibres**
280g
 **Navy and Orange XS-4XL**



FR21 Super Light Weight Anti-Static Coverall 210gm

EN ISO 11612 A1+A2, B1, C1, FI,
EN ISO 11611 CLASS 1 A1 + A2,
EN1149-5
GOST- R CERTIFIED

Constructed with a super lightweight highly innovative flame-resistant BizFlame™ Plus fabric.

 **BIZFLAME™ PLUS - 99% Cotton, 1% Carbon fibres** 210g
 **Navy and Orange XS-3XL**



Lightweight For Warmer Climates 29



DESIGNED FOR THE OIL & GAS INDUSTRY WINTER GARMENTS

BizFlame™ Plus - Winter options. These winter products have been developed and designed using the highly innovative flame retardant outer BizFlame™ Plus fabric combined with an insulation layer and Flame Resistant cotton layer for added warmth and protection.

The outer fabric is constructed from 99% cotton and interwoven with 1% carbon yarns. These garments are guaranteed to give you comfort and protection in cold weather conditions.



FR59 FR Anti-Static Winter Jacket

EN ISO 11612 A1+A2, B1, C1, FI,
EN ISO 11611 CLASS 2 A1+A2
EN1149-5
GOST- R CERTIFIED

The extra thick wadding insulation and FR cotton lining on this jacket gives extra warmth. This style also has high visibility reflective tape double stitched for enhanced visibility. Meeting all the required EN standards including the welding standard. Features include triple stitched seams, high visibility strips on shoulders, arms and body, concealed 2-way front brass zip and two front slant chest pockets with flaps.



BIZFLAME™ PLUS 350g
100% FR cotton 170g
FR wadding 300g
Orange S-3XL





Brass Zip fly

Adjustable waist



FR58 FR Anti-Static Winter Salopettes

EN ISO 11612 A1+A2, B1, C1, FI,
EN ISO 11611 CLASS 2 A1+A2
EN1149-5
GOST- R CERTIFIED

Using wadding insulation and FR cotton lining for extra warmth, this style also has high visibility reflective tape double stitched for enhanced visibility. Meeting all the required EN standards including the welding standard.



BIZFLAME™ PLUS 350g
100% FR cotton 170g
FR wadding 200g
Orange S-3XL



Detachable Hood

Radio Loop

Adjustable Sleeve opening

Concealed Zip opening

Triple stitched seams



FR53 FR Anti-Static Winter Coverall

EN ISO 11612 A1+A2, B1, C1, FI,
EN ISO 11611 CLASS 2 A1+A2
EN1149-5
GOST- R CERTIFIED

Using a layer of wadding insulation and FR cotton lining for extra warmth, this meets all the required EN standards. Features include triple stitched seams, high visibility strips on shoulders, arms and legs, concealed 2-way front brass zip and two front slant chest pockets with concealed stud closure.



BIZFLAME™ PLUS 350g
100% FR cotton 170g
FR wadding 200g
Orange S-3XL





ENGINEERED FOR PROTECTION, COMFORT AND STYLE

BizFlame™ Plus Jacket, Trousers and Bib and Brace have been developed and designed using the highly innovative **Bizflame™ Plus** flame retardant fabric with added anti-static properties.

Constructed from **99% cotton** and interwoven with **1% carbon** yarns. These styles also conform with the welding standard **EN11611**.

These styles are perfect for the demands of the offshore and welding industry.



FR55 Bizflame Plus Jacket

EN ISO 11612 A1+A2, B1, C1, F1
EN ISO 11611 A1+A2, CLASS 2
EN1149-5
GOST- R CERTIFIED

Jacket features include triple stitched seams, high visibility strips on shoulders, arms and hem, concealed front brass zip, two front chest pockets with flap and stud closure. Adjustable sleeve opening.



BIZFLAME™ PLUS 350g
Navy S-3XL
Orange S-3XL





NEW
COLOUR



FR56 Bizflame Plus Trousers

EN ISO 11612 A1+A2, B1, C1, F1
EN ISO 11611 A1+A2, CLASS 2,
EN1149-5
GOST- R CERTIFIED

Trousers features include triple stitched seams, high visibility strips on legs, knee pad pockets, ruler pocket, front fly brass zip and adjustable bottom leg opening.



BIZFLAME™ PLUS 350g
Navy S-3XL
Orange S-3XL



NEW
COLOUR



FR57 Bizflame Plus Bib and Brace

EN ISO 11612 A1+A2, B1, C1, F1
EN ISO 11611 A1+A2, CLASS 2,
EN1149-5
GOST- R CERTIFIED

Bib and Brace features include triple stitched seams, high visibility strips on the legs and body, two front patch pockets, one ruler pocket, one front chest pocket, one back pocket with flap and stud closure and adjustable bottom leg opening.



BIZFLAME™ PLUS 350g
Navy S-3XL
Orange S-3XL



FR,IW



FR,IW

Great New Flame Resistant Designs



Introducing **BIZFLAME WORK**, the new and exciting addition to our range. Including 5 new styles, the revolutionary and stylish range of Antiflame, Antistatic and High Visibility garments are designed and engineered specifically to ensure the working environment is a safer place.



FR30 FR Anti Static, Lined Fleece

EN 14116 INDEX 3 EN1149

This quality fleece provides comfort and warmth when heat & flame and anti static protection are needed. It is constructed with a double sided anti-pill polyester fleece. Features include two side pockets with concealed zip closure to keep belongings secure. Comfortable elasticated cuffs and drawstring at hem.

 **94 % FR Polyester 6% Carbon fibre, 280g**
FR Cotton lining 170g
Navy, S-3XL



FR31 FR Anti Static, HiVis Lined Fleece

EN471 CLASS 3:2, EN 14116 INDEX 3, EN1149

This fully certified, two-tone, lined fleece jacket is constructed with a double sided, anti-pill, polyester fabric. The jacket features silver reflective strips certified to EN471 and 2 zipped hand warmer pockets in the side seams

 **94 % FR Polyester 6% Carbon fibre, 280g**
FR Cotton lining 170g
Yellow, S-3XL



FR71 HiVis Anti Static Vest with Flame Resistant Finish

EN471 CLASS 2:2,
EN 14116 INDEX 1/5H/40, EN1149

 **100% FR Polyester Tricot 120gm**
Yellow, Orange, S/M, L/XL, 2XL/3XL



FR76 HiVis Jacket with Flame Resistant Finish

EN471 CLASS 3:2
EN ISO 14116 INDEX 1/5H/40

 **100% Polyester 160g**
Yellow, S/M, L/XL, 2XL/3XL



FR75 HiVis Vest with Flame Resistant Finish

EN471 CLASS 2:2,
EN ISO 14116 INDEX 1/5H/40

 **100% Polyester 160g**
Yellow, Orange S/M, L/XL, XXL/3XL





FR Sealtex Jacket and trouser style with added Flame Protection!

Constructed from an anti-flame, PU coated, polyester fabric, the lightweight and durable Sealtex Flame suit is designed to offer full protection against adverse weather conditions. Certified to EN ISO 14116, EN1149, EN13034 & EN343 with an EN471 option. The lightweight and flexible fabric with welded seams ensures reliability under the most extreme conditions.



FR41 Sealtex Flame Hi Vis Jacket
FR46 Sealtex Flame Jacket

FR41: EN471 3:2, EN ISO 14116 INDEX 1, EN343 CLASS 3:1, EN1149-5, EN13034
FR46: EN ISO 14116 INDEX 1 EN343 CLASS 3:1 EN1149-5 EN13034

This lightweight waterproof and windproof jacket offer excellent protection, in harsh or foul weather conditions. Features include a studded storm flap, front flapped pockets and adjustable cuffs.



Sealtex Flame 195g
FR41: Yellow S-3XL
FR46: Navy S-3XL



SEALTEx FLAME™

COMBINING COMFORT AND PROTECTION



FR43 Sealtex Flame Hi Vis Trouser
FR47 Sealtex Flame Trouser

FR43: EN471 1:2, EN ISO 14116 INDEX 1, EN343 CLASS 3:1, EN1149-5, EN13034
FR47: EN ISO 14116 INDEX 1 EN343 CLASS 3:1 EN1149-5, EN13034

These trousers offer excellent protection against harsh elements. They are waterproof and windproof, yet remain lightweight. Features include adjustable hems designed to fit over footwear.



Sealtex Flame 195g
FR43: Yellow S-3XL
FR47: Navy S-3XL



FR46

FR41



Heat Applied EN471 reflective tape for added visibility

FR47

FR43



Portwest **Multi-Protection** Range is a range of quality, **fully certified** garments that offer maximum protection to wearer against heat, flame, anti-static, adverse weather and poor visibility conditions.

WATERPROOF AND FLAME RESISTANT



Detachable hood



NEW



S773 Bizflame Rain Hi-Vis Antistatic FR Bomber Jacket

EN471 CLASS 3:2,
EN ISO 14116,
EN343 CLASS 3:1

Portwest's new bomber jacket version of the ever popular S778 Multi norm rain jacket. Now certified to EN 14116

- 98% Polyester, 2% Carbon Fibre with a PU Coating, 250g
- FR Cotton Lining, 170g with a 100% polyester FR wadding, 100g
- Yellow S-3XL



S778 Bizflame Rain Hi-Vis Breathable Antistatic FR Jacket

EN531 A, B2, C2, EN533
EN 1149-3, EN471 CLASS 3:2
GO/RT 3279 (ORANGE ONLY)
EN343 CLASS 3:2

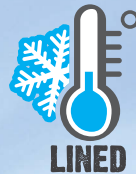
Optimum protection is offered from this antistatic jacket. Flame resistance coupled with superb breathable and water resistant properties, means this garment meets the necessary stringent European standards.

- 98% Polyester, 2% Carbon Fibre with a PU Coating, 250g
- FR Cotton Lining, 170g with a 100% polyester FR wadding, 100g
- Yellow, Orange S-3XL





UNLINED



LINED



Zipped
ankles with a
Velcro flap



S780 Bizflame Rain Unlined - Hi-Vis Antistatic FR Trouser

EN533 INDEX 1, EN 1149-5
EN471 CLASS 1:2
EN343 CLASS 3:3

These unlined trousers come with fully elasticated waistband and back waist buggy to maximise comfort. The braces are fitted with a quick release buckle system.



**98% Polyester, 2% Carbon Fibre with a PU
Coating 250g**



Yellow, Orange S-XXL



EN 471



EN 1149



EN 343



EN 533



S781 Bizflame Rain Lined - Hi-Vis Antistatic FR Trouser

EN533 INDEX 3
EN 1149-5
EN343 CLASS 3:3
EN471 CLASS 1:2

Offers all the characteristics of the S780 with a
flame resistant liner for extra warmth.



**98% Polyester, 2% Carbon Fibre with a
PU Coating 250g**



**FR Cotton Lining, 170g/m
Yellow, Orange S-XXL**



EN 471



EN 1149



EN 343



EN 533



MULTI EN STANDARDS



LINED

Concealed mobile phone pocket under storm flap

Stain resistant finish

Taped seams for protection against rain

Taped seams for protection against rain

Drawcord hood and hem



LINED

Stain resistant finish

FR Cotton Lined



S779 Bizflame Rain Hi-Vis Multi-Protection Jacket

EN471 CLASS 3:2, EN343 CLASS 3:2, EN ISO 14116, EN1149-5, GO/RT 3279 (ORANGE ONLY)

Multi-protection jacket comes with detachable FR fleece liner, which means that it is suitable for use in all weather conditions. Jacket to be worn with trousers for full protection.

- 98% Polyester, 2% Anti-Static Carbon fibre with a Fluoro Carbon Finish, with 100% PU Coating 250g.
- Flame retardant Cotton Lining, 170g. Removable 100% Polyester Flame retardant fleece gilet.
- Conforms to EN ISO 14116 Index 1
- Yellow/Navy S-XXL, Orange/Navy M-XXL



EN 471



EN 1149



EN 343



EN ISO 14116



S782 Bizflame Rain Hi Vis Multi-Protection Trousers

EN471 CLASS 2:2, EN343 CLASS 3:2, EN ISO 14116, EN1149-5

Features of this lined trouser includes fully elasticated waistband and back waist buggy, with braces that are fitted with a quick release buckle system. Trousers to be worn with jacket for full protection.

- 98% Polyester, 2% Anti-Static Carbon fibre with a Fluoro Carbon Finish, with 100% PU Coating 250g.
- Flame retardant Cotton Lining, 170g.
- Yellow/Navy, Orange/Navy M-XXL



EN 471



EN 1149



EN 343



EN ISO 14116



WILDLAND FIRE BIZFLAME PLUS FLAME RESISTANT

BizFlame™ Plus - lightweight. This fabric has all the benefits of the highly innovative flame resistant BizFlame™ fabric. The garment design is developed specially to protect against the hazards of wildland fires.

WILDLAND FIRE
BIZFLAME PLUS
FLAME RESISTANT

FR98 Wildland Fire Coverall

EN ISO 11612 A1+A2, B1, C1
EN 15614 A1+A2
EN1149-5
GOST- R CERTIFIED

Constructed with a light weight highly innovative flame-retardant fabric with special features to protect the wearer from the hazards associated with wildland fires.

 **BIZFLAME™ PLUS - 99% Cotton, 1% Carbon fibres 280g**
 **Navy S-XXL**



FR, IW



EN15614

This European Standard specifies methods of test and minimum performance requirements for protective clothing, designed to protect the wearer's body, except the head, hands and feet, to be worn in wildland firefighting and associated activities. This clothing is not intended to provide protection during fire entrapment.

This European Standard covers the general design of the clothing, the minimum level of performance for the materials employed and the methods of test to determine these levels.

This European Standard is not applicable to clothing for use in situations encountered in structural firefighting (EN 469 and ISO 11613) or where a high level of infrared radiation is expected (EN 1486), nor does this European Standard cover clothing to protect against chemical, biological, electrical or radiation hazards.



FR rib knit cuffs

Double layer knee protection

FR Aramid sewing thread

FR Hi Viz yellow and Silver tape

S777 Flame Safe Jacket

EN531 A, B2, C1,
EN 343 CLASS 3:1
GOST- R CERTIFIED

This heat resistant and flame retardant waterproof jacket provides excellent protection. The flame retardant cotton liner and anti-wicking strip are key features.

 **Flame retardant 100% Nylon PU coated, (140g) EN 531 Certified**
 **Flame retardant Cotton Lining, 170g/m**
 **Flame retardant 100% Polyester Wadding, 100g/m**
 **Orange M-3XL**





DESIGNED FOR MAXIMUM PROTECTION

We understand that safety is crucial for professionals working in a fire hazardous environment.

The garments in the Bizweld™ Flame Resistant range have been specially designed to guarantee comfort, performance and safety whilst providing effective function at all times.

This range has been rigorously tested to meet and adhere to current EN standards.



Stud adjustable cuff



BIZ1 Bizweld™ Flame Retardant Coverall

EN ISO 11612 A1+A2, B1, C1, E1, F1
EN ISO 11611 CLASS 1, A1+A2
GOST - R CERTIFIED

Our best selling Bizweld™ coverall is ideal for offering complete protection to workers exposed to heat. The generous fit allows the wearer to work unhindered. The ample storage space, rule pocket and concealed mobile phone pocket hold equipment securely.



Bizweld™ 330g
Navy, Orange, Black
Royal, Bottle Green, Red
Grey



COLOUR	REG	TALL
NAVY	XS-5XL	S-5XL
ORANGE	S-3XL	L-3XL
BLACK	S-3XL	M-3XL
ROYAL	S-3XL	M-3XL
BOTTLE GREEN	S-3XL	L-XXL
RED	S-3XL	L-3XL
GREY	S-3XL	M-XXL

Designed to meet the demands of **welding** and similar environments



Stud adjustable cuff

Tape gives added Visibility

Stud adjustable cuff



Kneepad pockets

Back Hip pocket with flap



BIZ5 Bizweld™ Iona Coverall

EN ISO 11612 A1+A2, B1, C1, E1, F1
EN ISO 11611 CLASS 1, A1+A2
GOST - R CERTIFIED

The Bizweld Iona Coverall offers visible protection to the wearer. Clever design features include flame resistant reflective tape on the shoulders, sleeves and legs, kneepad pockets, ample storage space and a rule pocket.



Bizweld™ 330g
Navy, Orange, Black,
Royal, Red

COLOUR	REG	TALL
NAVY	S-4XL	S-3XL
ORANGE	M-3XL	
BLACK	M-3XL	
ROYAL	M-3XL	
RED	M-3XL	



BIZ6 Bizweld™ Hooded Coverall

EN ISO 11612 A1+A2, B1, C1, E1, F1
EN ISO 11611 CLASS 1 A1 + A2
GOST - R CERTIFIED

The Bizweld Hooded Coverall offers a built-in head protection option to the wearer plus added design features including knee pad pockets and a back hip pocket with flap.



Bizweld™ 330g
Navy Reg S-3XL





BIZ2 Bizweld™ Jacket

EN ISO 11612 A1+A2, B1, C1, E1, FI
EN ISO 11611 CLASS 1, A1+A2
GOST- R CERTIFIED

The Bizweld™ Jacket. Features include secure stud fasteners and two chest pockets with flaps. This flame resistant jacket also includes a concealed mobile phone pocket and can be matched perfectly with the Bizweld™ Trousers or Bib and Brace.



Bizweld™ 330g
Navy S-4XL, Royal, Black S-XXL
Red S-XXL, Orange M-XXL
Bottle Green S-XXL



BIZ3 Bizweld™ Trousers

EN ISO 11612 A1+A2, B1, C1, E1, FI,
EN ISO 11611 CLASS 1, A1+A2
GOST- R CERTIFIED



Bizweld™ use twin stitched seams that offer extra strength and feature side pockets with a conveniently placed rule pocket for quick and easy accessibility.



Bizweld™ 330g
Navy, Royal, Black,
Orange, Bottle Green



COLOUR	REG	TALL
NAVY	28"-52"	30"-48"
ROYAL	28"-46"	32"-42"
BLACK	28"-42"	32"-40"
ORANGE	28"-48"	
BOTTLE GREEN	28"-44"	32"-40"



BZ30 Bizweld™ Trousers

EN ISO 11612 A1+A2, B1, C1, E1, FI
EN ISO 11611 CLASS 1, A1+A2
GOST- R CERTIFIED



This garment has a Flexi-Fit waistband; twin stitched seams for extra strength and side pockets with a conveniently placed rule pocket for quick and easy accessibility.



Bizweld™ 330g
Red Reg S-XXL



COMPLETE PROTECTION

ANTI-STATIC
BIZWELD™
FLAME RESISTANT

HI-VIS

It has been designed and developed to provide flame, welding, Hi Vis and anti-static protection. Constructed from 99% Cotton and 1% carbon fibre. The carbon yarns are evenly spread along the warp to achieve the EN standard.



BIZ4 Bizweld™ Bib and Brace

EN ISO 11612 A1+A2, B1, C1, E1, F1
EN ISO 11611 CLASS 1, A1+A2
GOST- R CERTIFIED

This bib and brace has been constructed with a large chest pocket in the front for carrying tools or personal belongings and two side pockets, a back hip pocket with flap and a rule pocket. The adjustable elasticated straps offer maximum comfort and a perfect fit.



Bizweld™ 330g
Navy S-4XL, Royal S-3XL
84cm inside leg



BIZ7 Hi Vis Anti-Static Bizweld™ Coverall

EN ISO 11612 A1 + A2, B1, C1, E3 & F1
EN ISO 11611 CLASS 1 A1 + A2
EN1149-5
EN471 CLASS 3:2
GOST- R CERTIFIED

This Hi Vis coverall is ideal for poor visibility. Features include two chest pockets, two side pockets, hip pocket, rule pocket and kneepad pockets.



Bizweld™ 330g
Yellow/Navy Reg S-3XL





MOLE

PREMIUM MOLESKIN

Welding Clothing

Bizweld-Moleskin. Complete Protection.

The heavy weight sateen weave Moleskin fabric used in this coverall is 99% Cotton and 1% Carbon Fibre with added protection against hazards iron splash, static electricity and electric arc.

Designed to meet the demands of heavier welding and similar environments.

450G
HEAVYWEIGHT
DURABLE FABRIC



Internal chest pocket

Kneepad pockets

450G
HEAVYWEIGHT
DURABLE FABRIC



BZ40 Bizweld™ Moleskin Coverall

EN ISO 11612 A1+A2, B2, C1, E3, FI
EN 1149-5
EN 61482-1-2 CLASS 1
EN ISO 11611 CLASS 2, A1+A2
GOST- R CERTIFIED

The Bizweld™ Mole Coverall offers a coverall with heavy duty front stud closure. One internal chest pocket, two front swing pockets, two large back pockets with flaps, the option to insert knee pads when needed, ample storage space and a rule pocket.



Bizweld™ 450g
Navy Reg S-3XL



EN ISO 11612



EN 1149



EN 61482-2



EN ISO 11611



GOST-R

**SAFE
WELDER**



COLOUR	REG	TALL
NAVY	S-4XL	S-3XL
ROYAL	S-3XL	
RED	S-3XL	
ORANGE	S-3XL	
BOTTLE GREEN	S-3XL	

**SAFE
WELDER**

C030 CE Safe-Welder™ - Coverall

EN ISO 11612 A1+A2, B1, C1, E1, F1
EN ISO 11611 CLASS 1, A1+A2
GOST- R CERTIFIED

The Safe-Welder™ Coverall is a great choice for welders and industrial workers who are exposed to heat. Features include side elastic waist and multiple pockets.



SAFE-WELDER™ 330g
Navy, Royal, Red, Orange, Bottle Green



BIZFLAME
ANTI-STATIC
FLAME RESISTANT

SK20 Bizflame™ Sock

EN531, EN1149



48% Bizflame™, 32% Cotton, 20% Polyester
Black, Euro:39-48
UK:6-12



BIZTEX®

FR



**CHEMICAL
AND FLAME
RESISTANT**

BIZTEX®

FR

ST80 BizTex® SMS 5/6 FR Coverall

EN 13034, EN ISO 13982-1, EN 14116, EN1149-5

The SMS FR Coverall was developed using innovative non-woven fabric technology. The main characteristic of this coverall is the resistant to noxious dust and splash as well as being anti-static and fire retardant.



BizTex® SMS FR
White M-XXL



BZ11



BZ12

BIZWELD
FLAME RESISTANT

BZ11 Bizweld™ Sleeves BZ12 Bizweld™ Cape Hood

EN ISO 11612 A1+A2, B1, C1, E1, F1
EN ISO 11611 CLASS 1 A1 + A2
GOST- R CERTIFIED



Bizweld™ 330g
Navy - One Size

BZ11: 100

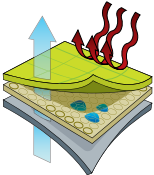
BZ12: 50





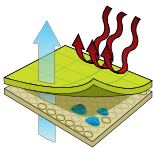
GORE-TEX FR235

fabric is the latest development from GORE and provides complete multi-hazard protection. There are two variations of the fabric which Portwest offer; FR235 3Layer and FR235 2Layer.



3 Layer fabric

Is used on the Salopettes and the hood.



2 Layer Fabric

Is used on the jacket and coverall.

The outer layer is extremely tough and durable, with a high tensile strength and tear resistance, making these garments long lasting.

The fabric is backed with a waterproof membrane, which is a composite of expanded polytetrafluoroethylene (ePTFE). This membrane makes water and wind penetration impossible, whilst allowing perspiration to escape.

The inner layer of the 3layer fabric is made from an aramid fabric, ensuring the garments provide the best heat & flame protection possible.

Lining used on the Jacket and coverall have been lined using 150 g/m2 Kermel Viscose fabric for both comfort and additional protection.

All these
GORE-TEX®

Garments conform to these standards



EN 1149



EN 61482-2



EN ISO 11612



EN 343



EN 471

Certified to **ELECTRIC ARC** **CLASS 2**



Zipped Internal Pocket

Adjustable Velcro Cuffs



GT65 GORE-TEX FR235 Coverall Lined

EN471:2003 CLASS3:2,
EN1149-3 2004,
EN ISO 11612:2008 A1B1C1,
EN343:2003 CLASS 3.3,
IEC EN 61482-2:2009 CLASS 2

Excellent fitting coverall manufactured in GORE-TEX FR235 fabric and it has FR lining for extra warmth and comfort and includes a detachable hood. Adjustable velcro cuffs, knitted FR storm cuffs, two large side leg pockets with storm flaps, and an inner soft collar provide maximum protection from wind and rain. Also allows easy access with lower leg opening with zip closure and velcro storm flap.



GORE-TEX FR235 2L 275g:
Outer: 52% Modacrylic 42%
Cotton 6% (1 Layer)

Polyester: Bicomponent Membrane:
ePTFE (1 Layer)



Kermel Viscose 150g
Hi Visibility Yellow S-XXL





GT60 GORE-TEX FR235 Jacket Lined

EN471:2003 CLASS 3:2,
EN1149-3:2004,
EN ISO 11612:2008 A1B1C1,
EN343:2003 CLASS 3.3,
IEC EN61482-2:2009 CLASS 2



The jacket is lined for extra warmth and safety. The outer fabric is GORE-TEX FR235 fabric, lined with a soft FR lining and features a large detachable hood which can be stored inside the jacket. With knitted FR inner storm cuffs, two large outer side pockets with storm flaps, plus an inner soft FR collar, give maximum protection from wind and rain.

GORE-TEX FR235 2L 275g:
Outer: 52% Modacrylic 42% Cotton 6% Polyester: (1 Layer)
Bicomponent Membrane: ePTFE. (1 Layer)
100% Aramid Kermel Viscose 150g
Hi Visibility Yellow S-XXL



GT69 GORE-TEX FR235 Hood Lined

GORE-TEX FR235 2L 275g:
Outer: 52% Modacrylic 42% Cotton 6% (1 Layer)
Polyester: Bicomponent Membrane: ePTFE. (1 Layer)
100% Aramid Kermel Viscose 150g
Hi Visibility Yellow S-XXL



GT62 GORE-TEX FR235 Salopettes Unlined

EN471:2003 CLASS 1:2,
EN1149-3 2004,
EN ISO 11612:2008 A1B1C1,
EN343:2003 CLASS 3.3,
IEC EN 61482-2:2009 CLASS 2



The salopette is manufactured from tough and durable 3 layer GORE-TEX FR235 fabric and features high waist design, FR elastic braces with quick release buckles, easy access lower leg opening with zip closure and velcro storm flap.

GORE-TEX FR235 3L 345g:
Outer: 52% Modacrylic 42% Cotton 6% Polyester: (1 Layer)
Bicomponent Membrane: ePTFE(1 Layer)
Inner Layer: 100% Aramid (1 Layer)
Hi Visibility Yellow S-XXL



Green Diamond™ Technology - Extreme Anti Slip

Silicium Carbide crystals are mixed into the rubber compound to achieve significantly increased friction between the bottom of the sole and the walking surface. By combining this technique with the design knowledge of the outsole lock pattern with various kinds of rubber i.e. high grip, long wear, oil resistant, anti-static etc the end result is an outsole with exceptional grip properties.

E-LEATHER®

porelle®

3M

POLIYOU®

L-protection
LENZI

YKK®

ÆGIS®



Oil hydrocarbons
resistant

Ultra grip panel with
multi directional water
dispersion channels

Durable rubber outsole - Oil
and Hydrocarbon resistant,
HRO heat resistant to 300C and
incorporating a non slip thread
design with a large ground surface
contact area that dissipates
liquids.



FD01 TractionLite Non Metallic 10 inch (25cm) Safety Boot S3 HRO
FD02 TractionLite Non Metallic 7 inch (18cm) Safety Boot S3 HRO

EN20345:2004 + A1:2007, IEC 61340-4-3, GOST- R CERTIFIED



Lightweight 100% non metallic construction with YKK zip, S3 E-Leather® and a waterproof and breathable membrane to keep feet dry in the harshest of conditions. Specially designed PU/Rubber outsole with Green Diamond™ technology offers superior slip resistance in the most demanding of conditions.



E-Leather®
PU/Rubber - Outsole F18 6D
Black, Euro: 38-48 UK: 5 - 13



B909 Travel Trolley Bag

600D Polyester
Black L76 x W37 x H36
(100 Litre capacity)



Tungsten-
Carbide Spike



Steel Spike



Steel Spike

FC91 Non Slip Ice Grabber Virtually non sparking spike



Rubber
Black, L(UK:8-11 Euro:39-43),
XL (UK:11+ Euro:44+)



FC93 Non Slip Ice Grabber



Rubber
Black, L(UK:8-11 Euro:39-43),
XL (UK:11+ Euro:44+)



FC94 Non Slip Ice Grabber



Rubber
Black, L(UK:8-11 Euro:39-43),XL
(UK:11+ Euro:44+)



PORTWEST®

YOUR DESIGN....

Portwest prides itself on the unique range of services we offer to our customers. We have the ability to serve customers of any size, anywhere, to their exact specifications, to any European or Internationally recognised standard of safety.



BESPOKE PRODUCT SERVICE

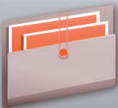
We design and develop bespoke product solutions to unique client requirements that want something different. A complete team of experienced, commercially aware designers & project managers are on hand to offer advice and technical know-how to YOU, to produce customised garments and products to meet your specific needs and changing needs. For example: Non standard design, colour, branding or size. Solutions can be quickly realised and production swiftly arranged while maintaining competitive pricing.



CONCEPT, RESEARCH & DEVELOPMENT

We listen carefully to our customers, understand the End User requirements & levels of protection needed so the product will be "fit for purpose"

The depth of our knowledge and the breadth of our resources includes sourcing raw materials, drafting specification charts and supplying samples before production starts.



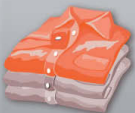
CERTIFICATION OF BESPOKE PRODUCTS

As part of our unrelenting drive towards best practice and industry leading customer service, all customised products are tested and certified to the relevant EN or ISO standards.



MODIFICATIONS TO STANDARD PRODUCTS

Choose from our existing range of 500 + products or make amendments to them by adding Reflective tape to sleeves or legs. Add a pocket, etc.



OWN BRANDING

Customers can select any Portwest product and have their own labelling and packaging applied during production.



PORTWEST STORAGE FACILITIES

Why not let us store your goods? We can provide storage for your items.



See the **PORTWEST** brochure for many more styles of garments, footwear and accessories.

**FOUNDRIES | MANUFACTURING | OIL & GAS | POWER GENERATION | PORTS
& SHIPPING | ELECTRICAL | MINING | UTILITIES | ONSHORE/OFFSHORE |
WELDING & ALLIED PROCESSES | STEEL MAKING | FIRE FIGHTING | OIL
HANDLING/TANK CLEANING | PETROCHEMICAL | AIRCRAFT RESCUE
WELDING | CHEMICAL HANDLING**

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