

HAZARD PROTECTION

BizTex™ hazard protective clothing is an industry leading range of hazard protection garments certified and exceeding the highest international standards. The extensive BizTex range offers powerful protection against many workplace hazards. The BizTex range is cost effective whilst offering the wearer innovative high protection.





Portwest's SMS is an integrated three layer polypropylene construction with anti-static properties. Formed by layering spunbond, meltblown and spunbond the fabric is strong and durable as well as being soft and breathable.

The high tensile strength offered by this trilaminate fabric protects the wearer from fluid and particulate penetration without compromising on mobility or comfort. Portwest have several garments manufactured with SMS in the BizTex range.



Portwest's BizTex Micro fabric is a polypropylene substrate with anti-static properties to which a polyethylene film is applied (PP/PE). The outer layer prevents the passage of liquid molecules inwards yet allows the vapour molecules that build up on the inside of the fabric to permeate. This technology keeps the wearer fresh and comfortable.

BizTex Micro has the added benefit of having an anti-static coating that provides protection against electrostatic buildup.

Biztex Plus is also available in an 82g option, offering added strength, abrasion and tear resistance.



For workers at risk from chemical splash who also may come into contact with flame or flash fire, the flame retardant BizTex SMS fabric is an obvious choice. The SMS fabric is an integrated three layer polypropylene construction. Formed by layering spunbond, meltblown and spunbond the fabric is strong and durable as well as being soft and breathable. This fabric is then treated with an FR coating which conforms to the flame resistant standard EN14116.



BizTex Pro fabric is made from soft 100% Polyester tricot warp knit, laminated with a low air permeability film (PE). The outer layer prevents the passage of liquid molecules inwards, yet allows the vapour molecules that build up on the inside of the fabric to permeate.

BizTex pro is reusable and washable up to 5 times.

PROVIDING EN STANDARD PROTECTION

EN 14605: 2005 +A1:2009

Protective Clothing Against Liquid Chemicals. This standard specifies performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only, (Types PB [3] and PB [4])



Liquid Tight Suits. (Type 3)

This test involves exposing a whole suit to a series of short jets of a water based liquid, aimed at various critical parts of the suit. This suit protects against strong jets of liquid chemical.

EN 14605



Spray Tight Suits. (Type 4)

Test involves exposing a whole suit to an intense spray of a water based liquid. This suit protects against saturation of liquid chemicals.

EN 14605



EN ISO 13982 - 1 :2004 + A1 :2009 (Type 5)

Dry particle suit. This specifies the minimum requirements for chemical protective clothing resistant to penetration by air borne solid particles. Protects against hazardous dust and dry particles.

EN 13982-1



EN 13034: 2005 +A1: 2009 (Type 6)

Reduce spray suit (Type 6) and partial body protection items (PB6). This specifies the minimum requirements for chemical protective clothing offering limited protective performance against liquid chemicals. This standard tests for liquid chemical (Type 6 and Type PB [6] equipment) sprays and splashes that are not directional or built up on a suit but there may be a fine mist of droplets in the atmosphere.

EN 13034



EN 1149

EN 1149 -5: 2018

Electrostatic requirements - surface resistivity (test method and requirements). This tests for the removal of electrostatic to avoid sparks that could cause fire/hazard to the wearer.



EN 14126

EN 14126: 2003

This specifies the requirements and test methods for limited use protective clothing providing protection against infective agents..



NUCLEAR PARTICLE

EN 1073-2: 2002

Protective clothing against radioactive contamination. Requirements and test methods for non-ventilated protective clothing against particulate radioactive contamination.

EN ISO 14116

EN ISO 14116: 2015

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.



CHEMICAL PROTECTION

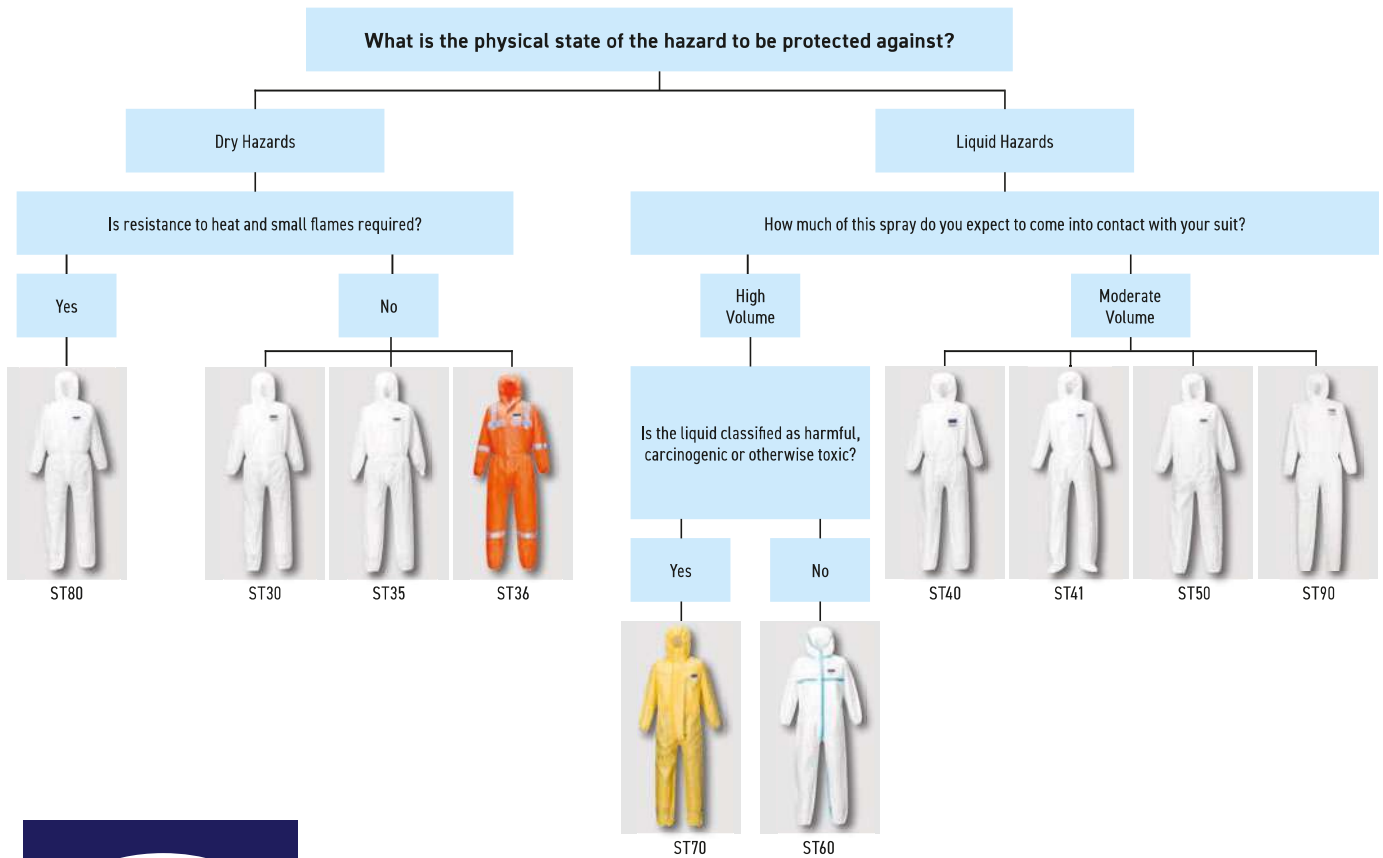
Indicates compliance with current European standards for chemical protective clothing.










ANSI/ISEA 101

ANSI/ISEA 101 2014

American National Standard for Limited-Use and Disposable Coveralls - Size and Labeling Requirements.

BIZTEX PRODUCT SELECTOR



	ST80	ST30	ST35	ST36	ST70	ST60	ST40	ST41	ST50	ST90
 CHEMICAL PROTECTION	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 EN 14605 (Type 3)					✓					
 EN 14605 (Type 4)					✓	✓				
 EN ISO 13982 Type 5)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 EN 13034 Type 6)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 EN 1149-5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
 EN 14126					✓	✓	✓	✓		✓
 EN 1073-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	
 EN ISO 14116	✓									



BIZTEX PERFORMANCE CHART

PERFORMANCE CHART FOR GARMENTS CONSTRUCTED FROM BIZTEX MICROPOROUS FABRIC AND BIZTEX SMS FABRIC

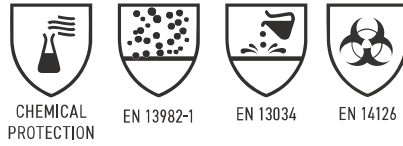
PHYSICAL FABRIC TEST: The fabric used in these garments is designated BizTex SMS fabric and BizTex Microporous fabric.			BizTex SMS FABRIC CLASS	BizTex MICROPOROUS FABRIC CLASS	BizTex SMS FR FABRIC CLASS
Abrasion Resistance	EN530	Class 1 (min) - 6 (max)	2	2	3
Flex Cracking Resistance	EN 7854 B	Class 1 (min) - 6 (max)	6	5	6
Trapezoidal Tear Resistant	EN ISO 9073-4 MD	Class 1 (min) - 5 (max)	1	3	1
	EN ISO 9073-4 XD	Class 1 (min) - 5 (max)	2	2	3
Tensile Strength	EN ISO 13934-1 MD	Class 1 (min) - 5 (max)	2	1	2
	EN ISO 13934-1 XD	Class 1 (min) - 5 (max)	2	3	2
Resistance To Ignition	EN13274-4		Pass	Pass	Pass
Puncture Resistance	EN 863	Class 1 (min) - 3 (max)	2	1	1
Stream Strength	EN ISO 13935-2	Class 1 (min) - 5 (max)	3	4	3
Fire Retardancy	EN 14116				Index 1

CHEMICAL FABRIC TESTS	BizTex SMS FABRIC		BizTex MICROPOROUS FABRIC		BizTex SMS FR FABRIC	
	Penetration Class	Repellency Class	Penetration Class	Repellency Class	Penetration Class	Repellency Class
Sulphuric Acid 30% - Class 1 (min) - 3 (max)	3	3	3	3	3	3
Sodium Hydroxide 10% - Class 1 (min) - 3 (max)	3	3	3	3	3	3
O-xylene: Class 1(min) - 3(max)	3	2	0	3	3	2
Butan-1-ol: Class 1(min) - 3(max)	3	2	0	0	3	2

INDUSTRIES AND HAZARDS LIST

	Abattoirs	Aerospace	Agriculture & Farming	Agrochemical Handling	Asbestos Handling	Automotive	Bioengineering	Biological Hazards	Utilities	Chemical Handling	Civil Protection	Construction	Decontamination	Disease/Disaster Management	Painting & Decorating	Electronics	Engineering	Food Processing	Forensic Science	Hazardous Materials	Industrial Clean-Up and Maintenance	Janitorial	Military	Nuclear Industry	Oil/Grease-Related Environments	Oil & Gas	Paint Handling/Isocyanate	Petrochemical	Pharmaceutical	Police	Printing	Powder Coating	Roof Insulation	Steel Making	Warehousing	Waste Management	
ST30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
ST35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST36	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST41	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST80	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST70	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST90	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

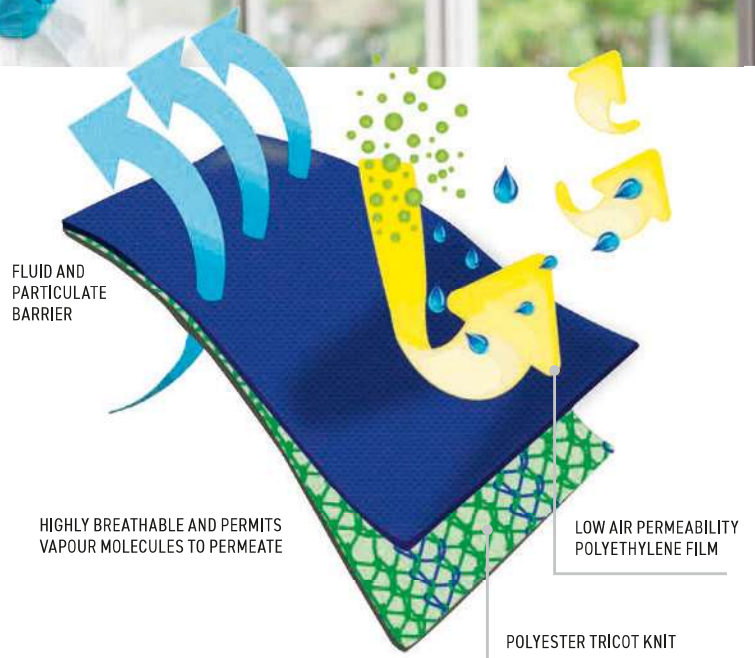




WASHABLE PROTECTION AGAINST DRY PARTICLES, REDUCED SPRAY AND INFECTIVE AGENTS UP TO 5 WASHES

BizTex Pro fabric is made from a soft 100% Polyester tricot warp knit, laminated with a low air permeability film (PE). The outer layer prevents the passage of liquid molecules inwards, yet allows the vapour molecules that build up on the inside of the fabric to permeate.

Certified to EN 14126 Protection against infective agents. For classification table, see page 571 (BizTex Micro intro).



CHEMICAL FABRIC TESTS		
	Penetration Class	Repellency Class
Sulphuric Acid 30%	3	3
Sodium Hydroxide 10%	3	3
O-Xylene	2	2
Butan-1-ol	3	3

PHYSICAL FABRIC TEST			
Abrasion Resistance	EN 530	Class 1 (min) - 6 (max)	CLASS 3
Flex Cracking Resistance	EN 7854	Class 1 (min) - 6 (max)	CLASS 6
Trapezoidal Tear Resistant	EN ISO 9073-4	Class 1 (min) - 5 (max)	CLASS 1
Tensile Strength	EN ISO 13934-1	Class 1 (min) - 5 (max)	CLASS 3
Puncture Resistance	EN 863	Class 1 (min) - 3 (max)	CLASS 2





LIGHTWEIGHT PRO COVERALL

NEW



50
25

ST90

BIZTEX PRO COVERALL TYPE 5/6

EN ISO 13982 TYPE 5B

EN 13034 TYPE 6B

EN 14126



- Reusable and machine washable up to 5 times
- Ultra-comfort and breathability
- Excellent liquid and particulate barrier protection
- Lightweight and comfortable
- Elasticated hood, ankles, cuffs and waist
- Sealable zip storm flap for extra protection

BizTex Pro, 75g

White M-3XL

**HIGHLY BREATHABLE
AND PERMITS VAPOUR
MOLECULES TO
PERMEATE**



CHEMICAL
PROTECTION

EN 13982-1

EN 13034

EN 14126





LIGHTWEIGHT SMS COVERALL

50
25

ST30

BIZTEX SMS COVERALL TYPE 5/6

EN ISO 13982 TYPE 5

EN 13034 TYPE 6

EN 1073-2

EN 1149 -5



100%



- Highly breathable SMS fabric
- Provides an effective barrier against particulates, aerosols and light sprays
- Anti-static
- Two-way zip for quick and easy access
- Sealable zip storm flap for extra protection
- Elasticated hood, ankles, cuffs and waist

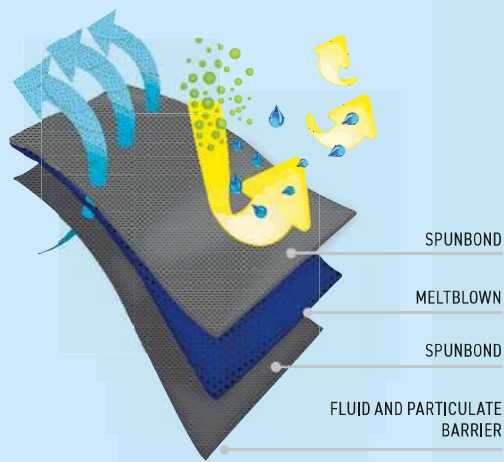
BizTex SMS, 55g

X White S-4XL

Y Navy M-3XL



BREATHABLE PROTECTION AGAINST HAZARDOUS DRY PARTICLES



CHEMICAL PROTECTION EN 13982-1 EN 13034 EN 1149 EN 1073-2





LIGHTWEIGHT SMS COVERALL



**TRILAMINATE
FABRIC FOR
MAXIMUM
PROTECTION**

50
25
UK
CA
CE
100%
BizTex SMS, 55g
White M-4XL

ST35
BIZTEX SMS COVERALL WITH KNITTED CUFF
TYPE 5/6
EN ISO 13982 TYPE 5
EN 13034 TYPE 6
EN 1073-2
EN 1149 -5

- Highly breathable SMS fabric
- Low linting construction for minimal contamination
- Ribbed cuffs for added comfort
- Ergonomically shaped hood for a perfect fit
- Sealable zip storm flap for extra protection
- Elasticated hem for a secure and comfortable fit

50
25
UK
CA
CE
100%
BizTex SMS, 55g
Orange M-3XL

ST36
VISTEX SMS COVERALL TYPE 5/6
EN ISO 13982 TYPE 5
EN 13034 TYPE 6
EN 1073-2
EN 1149 -5

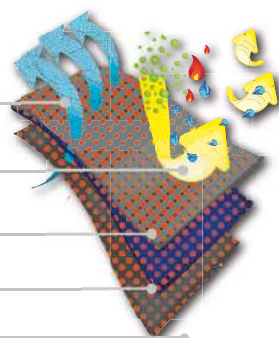
- Provides an effective barrier against particulates, aerosols and light sprays
- Anti-static
- Reflective tape for increased visibility
- Designed with a comfort fit
- Elasticated cuffs for a secure fit
- Ergonomically shaped hood for a perfect fit





FLAME RESISTANCE

FLAME RESISTANT SMS COVERALL



HIGHLY BREATHABLE

FLUID AND PARTICULATE BARRIER

SPUNBOND WITH FR COATING

MELTBLOWN WITH FR COATING

SPUNBOND WITH FR COATING

50
25

ST80

BIZTEX SMS FR COVERALL TYPE 5/6

EN ISO 14116 INDEX 1

EN ISO 13982 TYPE 5

EN 13034 TYPE 6

EN 1073-2

EN 1149 -5

UK
CA

CE

100%

2

- Highly breathable SMS fabric
- Generous fit for wearer comfort
- Sealable zip storm flap for extra protection
- Elasticated cuffs for a secure fit
- Ergonomically shaped hood for a perfect fit
- Retail bag which aids presentation for retail sales

Biztex SMS FR, 55g
 White M-3XL



EN ISO
14116



200
25

ST85

BIZTEX SMS FR BOOT COVER TYPE PB[6]

EN ISO 14116 INDEX 1

EN 13034 TYPE PB [6]

EN 1149 -5

UK
CA

CE

100%

2

- Highly breathable SMS fabric
- Exceptionally strong and low linting
- Unit of sale is 200 pairs

Biztex SMS FR, 55g
 White One Size



EN ISO
14116



LIGHTWEIGHT MICROCOOL COVERALL

50
25

ST50

**BIZTEX MICROCOOL
COVERALL TYPE 5/6**

EN ISO 13982 TYPE 5

EN 13034 TYPE 6

EN 1073-2

EN 1149 -5

UK
CA



100%



- Ultra-comfort and breathability
- Leading design made from microporous material
- Highly breathable SMS fabric
- Ergonomically shaped hood for a perfect fit
- Sealable zip storm flap for extra protection
- Elasticated hem for a secure and comfortable fit

BizTex PP/PE & SMS, 60g
 White M-3XL



ENHANCED COMFORT AND PROTECTION



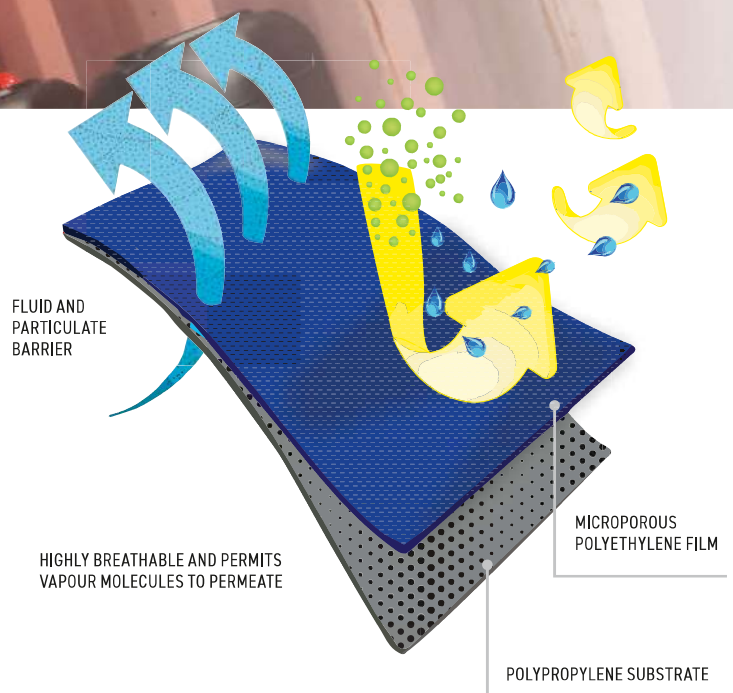
CHEMICAL PROTECTION EN 13982-1 EN 13034 EN 1149 EN 1073-2





ANTI-STATIC BREATHABLE PROTECTION AGAINST LIQUID HAZARDS

Portwest BizTex Micro fabric is a polypropylene substrate to which a laminated microporous polyethylene layer is applied (PP/PE). The outer layer of the fabric prevents the passage of liquid molecules inwards, yet permits the vapour molecules that build up inside to permeate.



CERTIFICATION & TESTING

EN 14126 is the standard that guarantees protection against biological hazards and infective agents such as Severe Acute Respiratory Syndrome (SARS), Ebola Virus and Avian Influenza. The BizTex ST60 performs at the top level in four of the five tests used to certify garments to EN 14126 as shown on the table above.

EN 14126 Classification Table	Test	Minimum Performance	BizTex Micro Results
Blood-Borne Pathogen	ISO 16604	20 kPa	CLASS 6
Synthetic Blood Penetration Resistance	ISO 16603	-	-
Contaminated Liquid Aerosols Penetration Resistance	Blood	Log > 5	CLASS 3
Contaminated Solid Particles Penetration Resistance	ISO 22612	Log ufc < 1	CLASS 3
Wet Bacteria Penetration Resistance	ISO 22610	t > 75	CLASS 6





LIGHTWEIGHT MICROPOROUS COVERALL

50
25

ST60

BIZTEX MICROPOROUS COVERALL TYPE 4/5/6

EN 14605 TYPE 4B
EN ISO 13982 TYPE 5B
EN 13034 TYPE 6B
EN 1073-2
EN 1149-5
EN 14126



100%



- Leading design made from microporous material
- Low linting construction for minimal contamination
- Anti-static
- Ergonomically designed for unrestricted movement, comfort and breathability
- Taped seams to provide additional protection
- Elasticated hood, ankles, cuffs and waist

BizTex Micro, 60g
 X White M-3XL



THE ST60 FROM PORTWEST BIZTEX RANGE IS THE IDEAL CHOICE FOR WORKERS AT RISK OF BIOLOGICAL INFECTIVE HAZARDS



CHEMICAL
PROTECTION



EN 14605



EN 13982-1



EN 13034



EN 1149



EN 1073-2



EN 14126





ENHANCED STRENGTH MICROPOROUS COVERALL

50
25

ST70

BIZTEX MICROPOROUS COVERALL TYPE 3/4/5/6

EN 14605 TYPE 3B
EN 14605 TYPE 4B
EN ISO 13982 TYPE 5B
EN 13034 TYPE 6B
EN 1073-2
EN 1149 -5
EN 14126

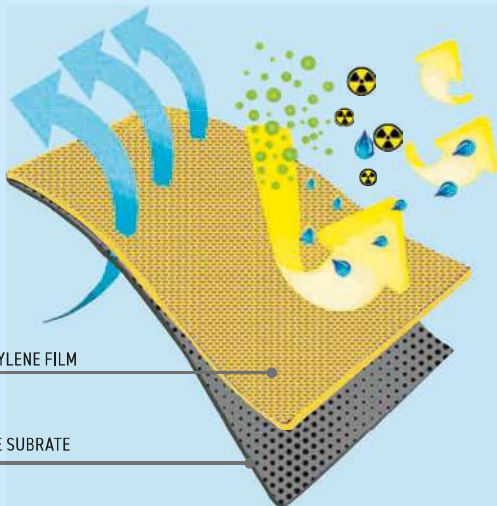


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- Excellent liquid and particulate barrier protection
- Taped seams to provide additional protection
- Double storm flap to protect against the elements
- Thumb loop
- Elasticated cuffs for a secure fit
- Ergonomically shaped hood for a perfect fit

BizTex Micro Plus, 82g
 Polypropylene 50g / Polyethylene 32g

Yellow M-XXL



CHEMICAL PROTECTION EN 14605 EN 14605 EN 13982-1 EN 13034 EN 1149 EN 1073-2 EN 14126



MICROPOROUS COVERALL



IDEAL PROTECTION AGAINST CHEMICAL HAZARDS

50
25
ST40

BIZTEX MICROPOROUS COVERALL TYPE 5/6

EN ISO 13982 TYPE 5B
EN 13034 TYPE 6B
EN 1073-2
EN 1149-5
EN 14126
ANSI/ISEA 101

- Leading design made from microporous material
- Excellent liquid and particulate barrier protection
- Low linting construction for minimal contamination
- Anti-static
- Two-way front zip and sealable front flap
- Elasticated hood, ankles, cuffs and waist

BizTex Micro, 60g
 White S-3XL

50
25
ST41

BIZTEX MICROPOROUS COVERALL WITH BOOT COVERS TYPE 5/6

EN ISO 13982 TYPE 5B
EN 13034 TYPE 6B
EN 1073-2
EN 1149-5
EN 14126

- Exceptionally strong and low linting
- Anti-static
- Disposable boot covers for superior protection against cross contamination
- Elasticated cuffs for a secure fit
- Sealable zip storm flap for extra protection
- Ergonomically shaped hood for a perfect fit

BizTex Micro, 60g
 White M-3XL





ACCESSORIES



50
25

ST31

BIZTEX SMS COAT TYPE PB [6]

EN 13034 TYPE PB [6]
EN 1149 -5

UK
CA

CE

- Protects from fluid and splashes
- Ultra-comfort and breathability
- Concealed stud front for easy access

100%

 BizTex SMS, 55g
 White L-XXL

300
30

ST42

BIZTEX MICROPOROUS APRON TYPE PB[6]

EN 13034 TYPE PB [6]
EN 1149 -1

UK
CA

CE

- Protects from fluid and splashes
- Anti-static
- Exceptionally strong and low linting

100%

 BizTex Micro, 60g
 White One Size



CHEMICAL PROTECTION



EN 13982-1



EN 1149



CHEMICAL PROTECTION



EN 13982-1



EN 1149



MICROPOROUS ACCESSORIES



150
25

UK CA

CE

2

100%

ST47
BIZTEX MICROPOROUS SLEEVE WITH KNITTED CUFF TYPE PB[6]
EN 13034 TYPE PB [6]
EN 1149 -5

- Knitted cuff for comfort and warmth
- Unit of sale is 150 pairs

BizTex Micro, 60g
 White One Size



150
25

UK CA

CE

2

100%

ST43
BIZTEX MICROPOROUS SLEEVE COVER TYPE PB[6]
EN 13034 TYPE PB [6]
EN 1149 -5

- Designed with a comfort fit
- Elasticated cuffs for a secure fit
- Unit of sale is 150 pairs

BizTex Micro, 60g
 White One Size



200
25

UK CA

CE

2

100%

ST44
BIZTEX MICROPOROUS SHOE COVER TYPE PB[6]
EN 13034 TYPE PB [6]
EN 1149 -5

- Disposable boot covers for superior protection against cross contamination
- Elasticated cuffs for a secure fit
- Unit of sale is 200 pairs

BizTex Micro, 60g
 White One Size



200
25

UK CA

CE

2

100%

ST45
BIZTEX MICROPOROUS BOOT COVER TYPE PB[6]
EN 13034 TYPE PB [6]
EN 1149 -5

- Excellent liquid and particulate barrier protection
- Elasticated hem for a secure and comfortable fit
- Unit of sale is 200 pairs

BizTex Micro, 60g
 White One Size



FOOT PROTECTION

OVER 117 YEARS OF
WORKWEAR INNOVATION

