

Technical Data Sheet

- Product Name:** ULTITEC 1000FR coverall
- Description:** Disposable flame retardant coverall with hood
- Product Code:** DDFR21
- Material:** Suit: SMMS flame retardant fabric
Zipper: Nylon on Polyester Braid
Elastic: Neoprene Rubber (latex free)
Thread: Polyester
Basic Weight: 55gsm
- Color:** White, Blue
- Approvals:** CE approved under PPE Directive (89/686/EEC), Category III
Article 10 Certification: SGS United Kingdom, LTD. Notified Body Number: 0120.
Article 11B Supervision: SGS United Kingdom, LTD. Notified Body Number: 0120
- Applications:** Asbestos Handling, Automotive, Civil Protection, Construction, Decorative Work, Waste Management.
- Sizing:** An appropriate size garment should be selected to allow sufficient movement for the task. Meet EN340 size guideline.



SIZE	CHEST		HEIGHT	
S	84 - 92 cms	33"-36"	162 - 170 cms	5'4"-5'6"
M	92 - 100 cms	36"-39"	170 - 176 cms	5'6"-5'9"
L	100 - 108 cms	39"-42"	176 - 182 cms	5'9"-6'0"
XL	108 - 116 cms	42"-45"	182 - 188 cms	6'0"-6'2"
XXL	116 - 124 cms	45"-48"	188 - 194 cms	6'2"-6'4"
XXXL	special larger sizes to order			

- Performance:**
The table below shows the performance of this product when tested under laboratory conditions. Please note that the tests reality of reflect that may not use and do not account for factors such as excessive heat and mechanical wear.

FABRIC PHYSICAL PROPERTIES	TEST METHOD	RESULT	CLASS
Classifications in accordance with EN 14325:2004			
Abrasion Resistance	EN530	>10 cycles*	class 1
Flex Cracking Resistance	ISO 7854 B	>15,000 cycles*	class 4
Trapezoidal Tear Resist	MD	ISO 9073-4	>20N
	CD		>20N
Tensile Strength	MD	ISO 13934-1	>60N**
	CD		>30N**
Puncture resistance	EN863	>5N	class 1
Seam Strength	ISO 13935-2	>75N	class 3
pH values	EN ISO 3071		Pass
Antistaticity	EN1149 - 5		Pass
Limited Flame Spread	EN ISO 14116		Index 1/0/0
Note *Denotes visual endpoint			
Note **EN ISO 14116 requires a tensile strength of >150N. This fabric has tensile strength of >30N only			
FABRIC CHEMICAL PROPERTIES	TEST METHOD	PENETRATION	REPELLENCY
Resistance to chemical penetration	EN 6530		
Sulphuric acid 30%		class 3	class 3
Sodium Hydroxide 10%		class 3	class 3
WHOLE SUIT TEST PERFORMANCE	RESULT		
Type 5 Inward Leakage Test method defined by EN ISO 13982-2:2004	Pass		
Type 6 Low Level Spray Test method defined by EN ISO 17491-4:2008 Method:A	Pass		
Protective clothing against radioactive materials as defined by EN1073-2:2002***	Class 1		
Note *** EN1073-2 clause 4.2 requires puncture resistance of class 2. This fabric meets class 1 only			

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Referenced Standards:

Attribute	Standard	Title
General Requirements	EN 14325	Protective clothing against chemicals. Test methods and performance classification of chemical protective clothing materials, seams, joins and assemblages.
General Requirements	EN ISO 13982-1	Protective clothing for use against solid particulates. Performance requirements for chemical protective clothing providing protection to the full body against airborne solid particulates (type 5 clothing).
General Requirements	EN 13034	Protective clothing against liquid chemicals. Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals (type 6 and type PB [6] equipment).
Abrasion Resistance	EN 530	Abrasion resistance of protective clothing material.
Flex Cracking Resistance	ISO 7854 (Method B)	Rubber- or plastics-coated fabrics. Determination of resistance to damage by flexing.
Trapezoidal Tear Resistance	ISO 9073-4	Textiles. Test methods for nonwovens. Determination of tear resistance.
Tensile Strength	ISO 13934-1	Textiles. Tensile force.
Puncture Resistance	EN 863	Protective clothing. Mechanical properties. Test method: puncture resistance.
Repellence to Liquids	EN 6530	Protective clothing. Protection against liquid chemicals. Test method: resistance of materials to penetration by liquids.
Resistance to Penetration by Liquids	EN 6530	Protective clothing. Protection against liquid chemicals. Test method: resistance of materials to penetration by liquids.
Inward Leakage of Aerosols of Fine Particles	EN ISO 13982-2	Protective clothing for use against solid particulates. Test method: determination of inward leakage of aerosols of fine particles into suits.
Resistance to Penetration by Spray	EN 17491-4 Method:A	Protective clothing for use against liquid chemicals. Test method: determination of resistance to penetration by spray (Spray Test).
Seam Strength	ISO 13935-2	Textiles. Seam tensile properties of fabrics and made-up textile articles. Determination of maximum force to seam rupture using the grab method.
Surface Resistivity	EN 1149-5	Protective clothing – Electrostatic properties – Part 1: Test method for measurement of surface resistivity.
Flame Retardant	EN ISO 14116	Protection against occasional and brief contact with sparks and small flames.

Safe Use:

- According to EN ISO 14116, the limited flame spread coverall must never be in direct contact with skin.
- Ultitec 1000FR must be always worn on top of index 2 or 3 garments and hoods.

Use Limitations:

- Do not use for:
- Exposure situations resulting in spray or liquid buildup on the suit.
 - Environments with high mechanical risks (abrasions, tears, cuts).
 - Environments with exposure to hazardous substances beyond CE Type 5/6 certification.
 - Environments with conditions of excessive heat.

Storage and Disposal:

- Store in dry, clean conditions in original packaging.
- Store away from direct sunlight, sources of high temperature, and solvent vapors.
- Store within the temperature range 15°C to +25°C (58°F to 78°F) and with relative humidity below 80%.
- Shelf life is 60 months from date of manufacture when stored as stated above.
- Replace garments if damaged, heavily contaminated or in accordance with local work practice.
- Electrostatic properties may be decay by wear, tear, contamination and time. Double check before use the garment.
- Handle and dispose of contaminated garments with care and in accordance with national regulations.



Do not wash



Do not clean dry



Do not iron



Do not tumble dry

Packing:

- 1 piece per sealed PE bag
- 50 pieces per carton
- Carton size = 49cm(L) x 33cm(W) x 60cm(H)