

Technical Data Sheet

- Product Name:** ULTITEC 4000 coverall
- Description:** Disposable anti-static coverall with hood
- Product Code:** DD61
- Material:** Suit: High performance external barrier film coated to non-woven fabric
Zipper: Nylon on polyester braid
Elastic: Neoprene rubber (latex free)
Thread: Polyester
Tape: Multi-layer composite barrier tape
Basic Weight: 83gsm
- Color:** Yellow
- 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:** Biological Hazards, Disaster Management, Oil Refining/ Exploration, Chemical Handling, Hazardous Material, Petrochemical, Decontamination, Industrial Clean up, Sewage Purification Installation, Disease, Oil Handling/ Tank Cleaning, Utilities
- 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 may not reflect the reality of use and do not account for factors such as excessive heat and mechanical wear.

FABRIC PHYSICAL PROPERTIES	TEST METHOD	RESULT	CLASS
Abrasion Resistance	EN530	>100 cycles*	Class 2
Flex Cracking Resistance	ISO 7854 B	>1,000 cycles*	Class 1
Trapezoidal Tear Resist.	MD ISO 9073-4	53N	Class 3
	CD	71N	Class 4
Tensile Strength	MD ISO 13934-1	121N	Class 3
	CD	82N	Class 2
Puncture Resistance	EN863	9N **	Class 1
Seam Strength	ISO 13935-2	108.2N	Class 3
Induction decay	EN 1149-3	S>0.2	
pH Value		Pass	
AZO dyes	EN14362-1	Pass	
Note * denotes visual endpoint			
Note ** exclusion: EN ISO 1073-2:2002 clause 4.2 requires class 2			
FABRIC CHEMICAL PROPERTIES	TEST METHOD	PENETRATION	REPELLENCY
Resistance to Chemical Penetration	EN ISO 6530		
Sulphuric Acid 30%		Class 3	Class 3
Sodium Hydroxide 10%		Class 3	Class 3
o-Xylene		Class 3	Class 2
Butan-1-ol		Class 3	Class 2
Resistance to Chemical Permeation	EN374-3	Breakthrough Time	Classification
Formaldehyde 10%	Fabric	>480 mins	Class 6
Methanol		>480 mins	Class 6
Sulphuric Acid 98%		>480 mins	Class 6
Formaldehyde 10%	Seams	>480 mins	Class 6
Methanol		13 min	Class 1
Sulphuric Acid 98%		>480 mins	Class 6
WHOLE SUIT TEST PERFORMANCE	RESULT		
Type 3	Jet test	Pass	
method as defined by	EN14605+A1:2009 + ISO 17491-3		
Type 4	Spray test	Pass	
method as defined by	EN14605+A1:2009 + ISO 17491-4		
Type 5	EN ISO 13982-1+A1:2010	Pass	
method as defined by	EN ISO 13982-2:2005		
pass = $L_{p,mn} .82/90 \leq 30\%$ and $L_{s,8/10} \leq 15\%$			Class 1
Protective clothing against radioactive contamination	EN1073-2: 2002	Class 1	
Performance of protective clothing against infective agents	EN14126:2003		
ISO 16603:2004	ISO 16604:2004	ISO22611:2003	ISO 22612:2005
Class 6	Class 6	Class 3	Class 3
			ISO 22610:2006
			Class 6

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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	EN14605	Protective clothing against saturation of liquid chemical, where volume of the liquid builds up on the suit forming pools, resulting in rivulets. Requires a barrier fabric (chemical tests to EN369 Permeation test) and sealed seams.
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 368	Protective clothing. Protection against liquid chemicals. Test method: resistance of materials to penetration by liquids.
Resistance to Penetration by Liquids	EN 368	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 468 (Modified)	Protective clothing for use against liquid chemicals. Test method: determination of resistance to penetration by spray (Spray Test).
Resistance to Ignition	EN 13274-4 (Method 3)	Protective clothing. Personal protective ensembles for use against chemical, biological, radiological and nuclear (CBRN) agents. Categorization, performance requirements and test methods.
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 1149-3	Protective clothing – Electrostatic properties – electrostatic dissipative protective clothing with a charge decay.

Use Limitations:

- Do not use for:
- Contact with heavy oils, sparks or flames, or combustible liquids
 - 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 1/2 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 -20°C to +25°C (-4°F to +68°F) and with relative humidity below 80%.
- Shelf life is 24 months from date of manufacture when stored as stated above.
- Replace garments if damaged, heavily contaminated or in accordance with local work practice.
- Handle and dispose of contaminated garments with care and in accordance with national regulations.

Do not wash

Do not clean dry

Flammable

Do not iron

Do not tumble dry

Packing:

- 1 piece per sealed PE bag
- 12 pieces per carton