

TDS of Type 4B coverall with Tape

Fabric Details		Weight	
Microporous PP laminated, white color		68gsm	
Item	Unit	Method	Test Result
Basic Weight	g/㎡	GB/T 24218.1-2009	67.8
MD Tensile Strength	N/5cm	GB/T 24218.3-2010	100.2
CD Tensile Strength	N/5cm	GB/T 24218.3-2010	43
MD Elongation	%	GB/T 24218.3-2010	98.3
CD Elongation	%	GB/T 24218.3-2010	71.8
Hydrostatic pressure	Pa	GB/T 4744-2013	29509
Antistatic	Ω	GB/T 12703.4-2010	7.3*10 ⁷

Whole suit type test result	
Product Standard	EN 340:2004
	EN 13034:2005 +A1:2009
	EN 14605:2005+A1:2009
	EN 1073-2:2002
	EN 14126:2003+AC:2004
	EN 1149-5:2008
	UNI EN ISO 13982:-12004 +A1:2010

Protective clothing, Penetration by spray	
Product Standard	UNI EN 14605:2009
Standard	UNI EN ISO 17491-4:2008 +UNI 14605:2009 Par. 4.3.4
Testing method	Method B
Test equipment	Turn-table and system of hydraulic nozzle with angle spray at 75°
Test liquid	Aqueous solution with dye water-soluble, with surface tension of (30±5)×10 ⁻³ N/M
Undergarment	White with hood(Non woven fabric)
Spray pressure	3 bar
Flow	(1.14±0.10)l/min

Type of hydraulic nozzle	hollow-cone
Preliminary test	execution sequence of movements(7 step)
Pretreatment	no
Stain sample	1cm ²
Maximum area of stains	3x1cm ²
Additional protective accessories	hood

Protective clothing, Seam tensile properties. Grab method	
Product Standard	UNI EN 13034:2009
Standard	UNI EN ISO 13935-2:2001+UNI EN 13034:2009 Par.4.2.2
Pretreatment	no
Rate of extension	50mm/min
Standard atmosphere for conditioning	(20±2)°C -(65±4)%R.H.
Standard atmosphere for testing	(20±2)°C -(65±4)%R.H.
Test equipment	Dynamometer type C.R.E
Length test	(100±1)mm
Specimens dimensions	(100x350)mm
Clamping area	(25±1)x(25±1)mm
Seams ready done	yes
Number of measured Specimens	5
Number of discarded Specimens	0

Test Results

1st Specimen	N	58.8b
2nd Specimen	N	61.8b
3rd Specimen	N	64.0b
4th Specimen	N	60.2c
5th Specimen	N	58.2c
Medium	N	61
Medium	KG	6.22
Coefficient of variation	%	3.9

Protective clothing, permeation by liquids

Product Standard	UNI EN 14605:2009
Standard	UNI EN ISO 6529:2003+UNI EN 14605:2005 Prt. 4.2
Testing method	Method A

Chemicals Used	H2SO4(10%)-HCL(10%)-NaOH(10%)-KOH(10%)
Test tempersture	(20±1)°C
Test duration	8h
Storage medium	Deionized water-10ml/min
System configuration	Open loop
Analytical technique	conductivity
Minimum detectable permeation rate	0.002ug/(min x cm ²)
Normalized permeation rate	1.0ug/(min x cm ²)
Pretreatment	no

Test results

Reagent H2SO4(10%)	Breakthrough detection time(min)	Normalized Breakthrough detection time(min)	Maximum permeation detection time(min)	Maximum permeation rate(ug/(min x cm ²))
Cell 1	2	35	336	56.97
Cell 1	3	30	322	50.18
Cell 1	2	38	340	59.66
Average	2	34	333	55.6
Observation of material condition following contact with the test chemical: no changes				
Reagent HCL(10%)	Breakthrough detection time(min)	Normalized Breakthrough detection time(min)	Maximum permeation detection time(min)	Maximum permeation rate(ug/(min x cm ²))
Cell 1	2	13	480	44.72
Cell 1	1	14	480	34.59
Cell 1	2	14	480	39.12
Average	2	14	480	39.45
Observation of material condition following contact with the test chemical: no changes				

Protective clothing, textile. PH of aqueous extract

Product Standard	UNI EN 340:2004
Standard	EN ISO 3071:2006+UNI EN 340:2004 Par.4.2
Test equipment	ph-meter with combined glass electrode
Extraction solution	KCL 0.1mol/l
weight of specimens	(2±0.05)h
ph of extraction solution	5.8
Temperature of solution	25°C



Rm.1002,10th floor, A1 Building of Modern Enterprise City. No.33 HongTu Avenue, DongXiHu
District, Wuhan City, Hubei Province, China.430040
Telephone:+86(0)27-82737771
Email: info@zonsenmed.com
website: www.zonsengroup.com

Number of specimens	3	
Test result		
Average of 2nd and 3rd extract	PH	6.7