

11-20

Sayfa 2 / 5

EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.

20043312

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TEST RESULT

EN 14605+A1:2009 Protective clothing against liquid chemicals – 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])(*)

Sample 1& Sample 2 & Sample3 (Performance requirements for clothing with liquid-tight (Type 3)
The test was performed with three repetitions, at moderate speed, of the "seven movements" sequence described below

Table 1

Pre-experiment 1	Person
Pre-experiment 2	Height: 168 cm
Pre-experiment 3	Weight: 82 kg

TEST RESULT

Clause	Requirement	Pre-Experiment	
		PASS	FAIL
4.3.4.1	Starting from a standing position in each case, carry out the following movement sequence		
Movement 1	Kneel on both knees, lean forward and place both hands on the floor (45 ± 5) cm in front of the knees; crawl forward and backwards on hands and knees for a distance of three metres in each direction	✓	
Movement 2	Climb a vertical ladder at least four steps, rungs to be as encountered on a typical ladder;	✓	
Movement 3	Position hands at chest level, palms out; reach directly overhead, interlock thumbs, extend arms fully upwards;	✓	
Movement 4	Kneel on right knee, place left foot on floor with left knee bent (90 ± 10) °; touch thumb of right hand to toe of left shoe. Repeat movement with alternate posture, i.e. by kneeling on left knee and placing the right foot on the floor with knee bent at 90°.	✓	
Movement 5	Extend arms fully in front of body, lock thumbs together, twist upper body (90 ± 10) ° left and right.	✓	
Movement 6	Stand with feet shoulder width apart, arms at side; raise arms until they are parallel to the floor in front of the body; squat down.	✓	
Movement 7	Kneel as in movement 4, left arm hanging loosely at side; raise arm fully overhead. Repeat movement with alternate posture by alternating arms.	✓	

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Samples are received in the form of plastic packing by the company. For this reason, no additional cleaning was performed with the suggestion of the company.
All products are conditioned at 22 °C 65% Rh values for 24 hours.

EN ISO 17491-4 Protective clothing — Test methods for clothing providing protection against chemicals — Part 4: Determination of resistance to penetration by a spray of liquid (spray test)(*)

Clause	Requirement	Result-Remark	Verdict
4.3.4	Resistance to the penetration of liquids		
4.3.4.1	General and Pre-test		
	Pre-test	-There are no preventing factors. -No tearing or deformation was observed in the samples. The details are given in table 1.	PASS
4.3.4.2	Resistance to the penetration of liquids (Spray Test)	Type 4	
EN ISO 17491-4 Article 9	Remove respirator and gloves first before opening the test garment. Remove the chemical protective clothing carefully in order to avoid contamination of the absorbent overall and examine the internal surface of the test garment for signs of penetration, paying special attention to openings, seams, closures and zippers. Mark them.	Three test clothes were dressed tested together with the White absorbent underwear.	PASS
Clause 4.3.3.2	Any underwear, of each garment suit. The total stain area on it should not be more than three times the calibrated total stain area.	Calibration stain area: measured as 3.45 cm ² . Sum of stains on the inner White garment given in table 2	PASS

EN ISO 17491-3 Protective clothing — Test methods for clothing providing protection against chemicals — Part 3: Determination of resistance to penetration by a jet of liquid (jet test)(*)

4.3.4.2	Resistance to the penetration of liquids (Jet Test)	Type 3	
EN ISO 17491-3 Article 9	Three new suits, pre-conditioned in accordance with 4.3.2, shall be tested in accordance with EN 463. If applicable, the suits shall be worn with the additional personal protective equipment specified in the manufacturer's instructions.	Three test clothes were dressed tested together with the White absorbent underwear.	PASS
	All suits shall pass the test, i.e. the total stain area on any one undergarment of each suit shall be less than or equal to three times the total calibrated stain area.	Sum of stains on the inner White garment given in table 2	PASS



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TEST RESULTS

Table 2

SPREY EXPERIENCE						
	UPPER BODY			LOWER BODY		SUM
	Chest (cm ²)	Shoulder (cm ²)	Back (cm ²)	Front (cm ²)	Back (cm ²)	
Sample 1	-	-	-	-	-	0
Sample 2	-	-	-	-	-	0
Sample 3	-	-	-	-	-	0

Table 3

Resistance to the penetration of liquids (Jet Test) Experience						
	UPPER BODY			LOWER BODY		SUM
	Chest (cm ²)	Shoulder (cm ²)	Back (cm ²)	Front (cm ²)	Back (cm ²)	
Sample 1	-	-	-	-	-	0
Sample 2	-	-	-	-	-	0
Sample 3	-	-	-	-	-	0

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