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CNAS L0599

Test Report

SL52105268513501TX

Date: May 27, 2021

Page 1 of 4

WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD  
NO.1599, SOUTH 3RD RING ROAD, SHENGZE, WUJIANG, SUZHOU, JIANGSU

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Hooded Isolation Coverall

Sample Color : (A)white

Composition : (A)PP+PE

Style No. : TTK-B02

Lot No. : TTK-20210320

Manufacturer : Wujiang Tutaike Textiles & Finishing Co.,Ltd

Country of Origin : China

Other Info. : Country of Destination: Europe and America / Sample Dimension: 175 / Model No.: M Lot Size:1

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : May 14, 2021

Testing Period : May 14, 2021 - May 27, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Comment

	EN ISO 13982- 1:2004+A1:2 010 (Type 5)	EN 14126:2003/AC:2 004
Whole Suits Testing	Pass	Referring to Type 5 comment

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Sara Guo (Account Executive)

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Test Result

**Protective Clothing for Use against Solid Particulates - Part 1: Performance Requirements for Chemical Protective Clothing Providing Protection to The Full Body Against Airborne Solid Particulates (Type 5 Clothing)**

(EN ISO 13982-1:2004+A1:2010)

**Clause 4.3 Performance Requirements for Whole Suits-Types 5 (Inward Leakage Test)**

Sample A

**Clause 4.3.1- General**

Requirement	Result	Comment
Type 5 clothing is of the "full-body" type, i.e. it provides protection to at least the trunk, arms and legs, and consists of a one-piece coverall or a two-piece suits. Head protection, e.g. a hood with visor, and/or foot protection may be worn additionally.	Comply	Pass

Description			
Undergarment:	cotton long trousers and a T-shirt with long sleeves		
Additional equipment:	/		
The physical dimensions of the wearers are shown below			
Tested Subjects	Total Height(cm)	Chest girth(cm)	Suit size
Huang	178	109	175-180
Shen	180	112	175-180
Xu	178	110	175-180
Yuan	179	111	175-180
Qin	177	112	175-180

Prior to testing each suit in accordance with EN ISO 13982-2:2004, a practical test shall be carried out by a human test subject. The test shall comprise three repetitions, at moderate speed, of the "three movement" sequence described in below. If the test subject is not able to perform one or several movements due to the hindrance of the suit or if the movements result in substantial damage to the suit, the suit shall be considered to have failed.

Sequence of movements according to standard

Test sample	Assessment after Movements
1	Pass
2	Pass
3	Pass
4	Pass
5	Pass
6	Pass
7	Pass
8	Pass
9	Pass
10	Pass

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Remark:

- Movement 1: Kneel on both knees, lean forward and place both hands on the floor 45 cm in front of the knees. Crawl forward on hands and knees over a distance of 3 m and crawl backwards again over the same distance.
- Movement 2: 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 as far as possible.
- Movement 3: Kneel on right knee, place left foot on floor with left knee bent 90°, left arm hanging loosely at side. Raise left arm fully overhead.

**Clause 4.3.2- Inward Leakage of Aerosols of Solid Particles**  
(EN ISO 13982-2:2004)

**The inward leakage value, expressed in percent**

Ordination	Value	Ordination	Value	Ordination	Value	Ordination	Value	Ordination	Value	Ordination	Value
1	4.9	16	5.2	31	5.5	46	5.8	61	6.1	76	6.4
2	4.9	17	5.3	32	5.5	47	5.9	62	6.1	77	6.4
3	4.9	18	5.3	33	5.5	48	5.9	63	6.2	78	6.4
4	4.9	19	5.3	34	5.6	49	5.9	64	6.2	79	6.4
5	4.9	20	5.3	35	5.7	50	5.9	65	6.2	80	6.5
6	4.9	21	5.4	36	5.7	51	6.0	66	6.2	81	6.5
7	5.0	22	5.4	37	5.7	52	6.0	67	6.2	82	6.5
8	5.1	23	5.4	38	5.7	53	6.0	68	6.2	83	6.5
9	5.1	24	5.4	39	5.7	54	6.0	69	6.2	84	6.6
10	5.1	25	5.4	40	5.8	55	6.0	70	6.2	85	6.6
11	5.1	26	5.4	41	5.8	56	6.0	71	6.3	86	6.6
12	5.1	27	5.4	42	5.8	57	6.0	72	6.3	87	6.6
13	5.1	28	5.5	43	5.8	58	6.0	73	6.3	88	6.6
14	5.2	29	5.5	44	5.8	59	6.0	74	6.4	89	6.7
15	5.2	30	5.5	45	5.8	60	6.0	75	6.4	90	6.7
L <sub>jmn,82/90</sub> ≤ 30%						L <sub>jmn,82/90</sub> : 6.5					



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The "total inward leakage per suit" value

Ordination	Value	Ordination	Value
1	5.7	6	5.8
2	5.7	7	5.8
3	5.7	8	5.8
4	5.8	9	5.9
5	5.8	10	5.9
L <sub>s,8/10</sub> ≤ 15%		L <sub>s,8/10</sub> : 5.8	

Requirement:

When tested accordance with EN ISO 13982-2, the type 5 protective clothing shall be characterized by the following parameters:

- L<sub>jmn,82/90</sub>: the inward leakage value, expressed in percent, corresponding to the 82<sup>nd</sup> L value of 90, i.e., the inward leakage values measured over all exercises, all sampling positions, all suits and sorted in ascending order;
- L<sub>s,8/10</sub>: the "total inward leakage per suit" value, corresponding to the 8<sup>th</sup> L<sub>s</sub> value of 10, i.e., the L<sub>s</sub> values of all suits sorted in ascending order.

Type 5 chemical protective clothing shall meet at least the following requirements:

- L<sub>jmn,82/90</sub> ≤ 30% ;
- L<sub>s,8/10</sub> ≤ 15%

**Comment: The submitted samples complies with the requirements of EN ISO 13982-1:2004+A1:2010 Clause 4.3 whole Suits Test for Type 5**

Sample Photo



Face

Back

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

\*\*\*End of Report\*\*\*

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