





中国认可 国际互认 检测 **TESTING CNAS L0599**

Test Report

Date:June 16,2020

Page 1 of 8

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

Sample Description (A)ISOLATION GOWN/COVERALL

XLStyle No.

Composition (A)PP+PE Sample Color (A)White

Manufacturer

Proposed Care Instruction:

Test Performed Selected test(s) as requested by applicant

Sample Receiving Date May 12, 2020

Testing Period May 21, 2020 - Jun 16, 2020

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 | EN | EN 14126:2003/AC:2004 |
|------------------------------|--------------------|--------------------|-----------------------------|
| | 14605:2005+A1:2009 | 14605:2005+A1:2009 | |
| | (Type 3) | (Type 4) | |
| Abrasion Resistance | Class 2 | Class 2 | |
| Compression-Folding | Class 6 | Class 6 | |
| (Schildknecht) Flex Cracking | | | |
| Resistance | | | |
| Compression-Folding | Class 6 | Class 6 | |
| (Schildknecht) Flex Cracking | | | Referring to Type 3/ Type 4 |
| Resistance at -30°C | | | comment |
| Trapezoidal Tear Resistance | Class 1 | Class 1 | Comment |
| Tensile Strength | Class 1 | Class 1 | |
| Puncture Resistance | No Classification | No Classification | |
| Resistance to Ignition | Pass | Pass | |
| Seam Strength | Class 2 | Class 2 | |
| Whole Suits Testing | Pass | Pass | |

Remark: Pass = Meet Relative Standard Requirement

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

Personal Protective Equipment - Protective Clothing Against Chemicals -Test Methods and Performance Classification of Chemical Protective Clothing Materials, Seams, Joins and Assemblages

EN 14325:2018

Clause 4.4 Abrasion Resistance

(EN ISO 12947-2:2016; Martindale Abrasion & Pilling Tester, Pressure: 9kPa, Grit 240 abrasion paper.)

(A)

| As Received | No. 1 | No. 2 | No. 3 | No. 4 | Minimum |
|-------------------------|-------|-------|-------|-------|---------|
| The quoted result(Rubs) | 45 | 52 | 55 | 63 | 45 |

Recommended Class: 2

Remark:

- 1. Visual examination is used for damage assessment after abrasion. If the assessment is performed through visual inspection, the maximum classification that can be claimed is a Class 3.
- 2. Classification of abrasion resistance: Class 1 >10rubs; Class 2 >40rubs; Class 3 >100rubs; Class 4 >400rubs; Class 5 >1000rubs; Class 6 >2000rubs.

Clause 4.5 Compression-Folding (Schildknecht) Flex Cracking Resistance

(EN ISO 7854:1997, Method B;)

(A)

| (A) | | | | |
|--------------------------|--------|--------|--------|---------|
| As Received | No. 1 | No. 2 | No. 3 | Minimum |
| Warp/Lengthwise(Cycle s) | >50000 | >50000 | >50000 | >50000 |
| Weft/Widthwise(Cycles) | >50000 | >50000 | >50000 | >50000 |

Recommended Class: 6

Remark:

- Visual examination is used for damage assessment after flex cracking. Visual inspection shall not be used for the performance classification of Type 1 through Type 3(EN 943-1, EN 943-2, EN 14605)
- 2) Classification of leak tightness after compression-folding(Schildknecht) flex cracking resistance: Class 1 >500cycles; Class 2 >1250cycles; Class 3 >3000cycles; Class 4 >8000cycles; Class 5 >20000cycles; Class 6 >50000cycles.



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Clause 4.6 Compression-Folding (Schildknecht) Flex Cracking Resistance at -30 ℃

(EN ISO 7854:1997, Method B;)

(A)

| As Received | No. 1 | No. 2 | No. 3 | Minimum |
|--------------------------|-------|-------|-------|---------|
| Warp/Lengthwise(Cycle s) | >4000 | >4000 | >4000 | >4000 |
| Weft/Widthwise(Cycles) | >4000 | >4000 | >4000 | >4000 |

Recommended Class: 6

Remark:

- Visual examination is used for damage assessment after flex cracking. Visual inspection shall not be used for the performance classification of Type 1 through Type 3(EN 943-1, EN 943-2, EN 14605)
- Classification of compression-folding(Schildknecht) flex cracking resistance at low temperatures: Class 1 >100cycles; Class 2 >200cycles; Class 3 >500cycles; Class 4 >1000cycles; Class 5 >2000cycles; Class 6 >4000cycles.

Clause 4.7 Trapezoidal Tear Resistance

(EN ISO 9073-4:1997;)

(A)

| As Received | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | Minimum |
|------------------------------|-------|-------|-------|-------|-------|---------|
| Warp/Length Yarns Torn(N) | 47 | 32 | 53 | 55 | 38 | 32 |
| Weft/Width Yarns Torn(N) | 18 | 24 | 19 | 15 | 26 | 15 |

Recommended Class: 1

Remark:

Classification of trapezoidal tear resistance: Class 1 >10N; Class 2 >20N; Class 3 >40N; Class 4 >60N; Class 5 >100N; Class 6 >150N.

Clause 4.9 Tensile Strength

(EN ISO 13934-1:2013; CRE - 2" Strip)

(A)

| As Received | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | Minimum |
|----------------|-------|-------|-------|-------|-------|---------|
| Warp/Length(N) | 60 | 61 | 65 | 64 | 60 | 60 |
| Weft/Width(N) | 34 | 36 | 34 | 39 | 36 | 34 |

Recommended Class: 1

Remark:

Classification of tensile strength: Class 1 >30N; Class 2 >60N; Class 3 >100N; Class 4 >250N; Class 5 >500N; Class 6 >1000N.



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Clause 4.10 Puncture Resistance

(EN 863:1995;)

(A)

<u>As Received</u> No. 1 No. 2 No. 3 No. 4 No. 5 Minimum Puncture Force(N) 5 4 5 5 4 4

Recommended Class: No Classification

Remark:

Classification of puncture resistance: Class 1 >5N; Class 2 >10N; Class 3 >50N; Class 4 >100N; Class 5 >150N; Class 6 >250N.

Clause 4.14 Resistance to Ignition

(EN 13274-4: 2001 Method 3, Flame temperature 800±50°C with a speed of (60±5) mm/s, gas used: Propane)

As received

| (A) | Length direction | | | Cross direction | | |
|--------------------------|------------------|-----|-----|-----------------|-----|-----|
| (A) | # 1 | # 2 | # 3 | # 1 | # 2 | # 3 |
| Form droplets | N | Ν | N | N | Ν | Ν |
| Time continue to burn(s) | NIL | NIL | NIL | NIL | NIL | NIL |

Conclusion Pass

Remark: Y: yes; N: no

Requirement:

- 1. All specimens shall not form droplets
- 2. All specimens shall prove to be "Self-extinguishing", i.e, shall not be of a highly flammable nature and shall not continue to burn for more than 5s after removal from the flame

Clause 5.5 Seam Strength

(EN ISO 13935-2:2014)

| (A) | # 1 | # 2 | #3 | Average |
|-------------------|----------|----------|----------|----------|
| Side seam(N) | 70(F.R.) | 59(F.R.) | 70(F.R.) | 66(F.R.) |
| Sleeve seam(N) | 71(F.R.) | 79(F.R.) | 87(F.R.) | 79(F.R.) |
| In-side seam(N) | 58(F.R.) | 57(F.R.) | 61(F.R.) | 59(F.R.) |
| Back rise seam(N) | 58(F.R.) | 62(F.R.) | 61(F.R.) | 60(F.R.) |

Recommended Class 2

Notes F.R. = Fabric Rupture;

Remark:

Classification of seam strength: Class 1 >30N; Class 2 >50N; Class 3 >75N; Class 4 >125N; Class 5 >300N; Class 6 >500N.



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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])

(EN 14605:2005+A1:2009)

Clause 4.3 Performance Requirements for Whole Suits-Type 3

Sample A

| Campio / C | Campio / | | | | | |
|--|---------------|-------------|---|--|--|--|
| 175 | Description | Description | | | | |
| Undergarment: | SMS nonwovens | | | | | |
| Additional equipment: | 1 | | | | | |
| | | | | | | |
| The physical dimensions of the wearers are shown below | | | | | | |
| Tested Subjects Total Height(cm) Chest girth(cm) Suit size | | | | | | |
| Chen | 180 | 120 | L | | | |

Clause 4.3.4.1 General and Preliminary Testing

Prior to testing each suit in accordance with EN ISO 17491-3 or EN ISO 17491-4, a practical test shall be carried out by a human test subject. The test shall comprise three repetitions, at moderate speed, of the "seven 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 | | | | |

Remark:

- -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 as far as possible;
- -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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Clause 4.3.4.3 Resistance to Penetration by Liquids (Jet Test)

(EN ISO 17491-3:2008)

| Test room temperature: | 24.4 |
|----------------------------------|--|
| Test liquid composition: | Methyl blue, sodium lauryl ether sulphate, citric acid and water |
| Test liquid surface tension: | (30±5)X10 ⁻³ N/m |
| Pressure of the liquid supplied: | 150kPa |

| Test | Calibrated Stain area | Total stain area on undergarment | Conclusion |
|--------|-----------------------|----------------------------------|------------|
| sample | (cm ²) | (cm ²) | |
| 1 | 3.63 | 8.04 | Pass |
| 2 | 3.63 | 8.23 | Pass |
| 3 | 3.63 | 7.95 | Pass |

Remark: All suits shall pass the test, i.e. the total area on any one undergarment of each suit shall be less than or equal to three times the total calibrated stain area.

Comment: The submitted samples complies with the requirements of EN 14605:2005+A1:2009 Clause 4.3 whole Suits Test for Type 3



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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])

(EN 14605:2005+A1:2009)

Clause 4.3 Performance Requirements for Whole Suits-Type 4

Sample A

| - Carriero | 42 | | | |
|-------------------------|--------------------------------|-----------------|-----------|--|
| | Description | | | |
| Undergarment: | SMS nonwovens | | | |
| Additional equipment: | / | | | |
| | | | | |
| The physical dimensions | of the wearers are shown below | | | |
| Tested Subjects | Total Height(cm) | Chest girth(cm) | Suit size | |
| Chen | 180 | 120 | L | |

Clause 4.3.4.1 General and Preliminary Testing

Prior to testing each suit in accordance with EN ISO 17491-3 or EN ISO 17491-4, a practical test shall be carried out by a human test subject. The test shall comprise three repetitions, at moderate speed, of the "seven 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 |

Remark:

- -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 as far as possible;
- -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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Clause 4.3.4.2 Resistance to Penetration by Liquids (Spray Test)

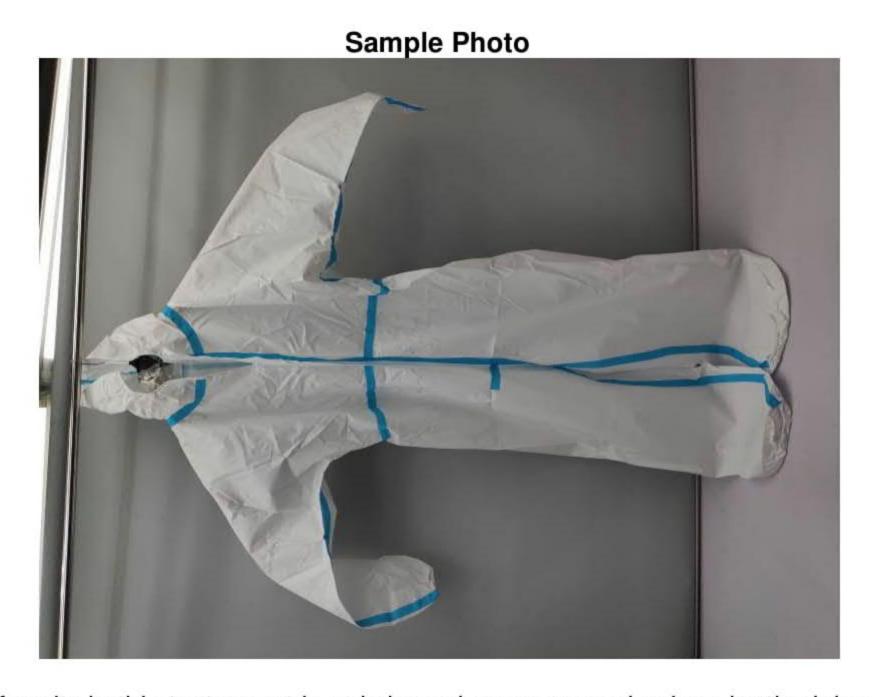
(EN ISO 17491-4:2008 Method B: high-level spray test)

| Test room temperature: | 24.4 |
|----------------------------------|--|
| Test liquid composition: | Methyl blue, sodium lauryl ether sulphate, citric acid and water |
| Test liquid surface tension: | (30±5)X10 ⁻³ N/m |
| Pressure of the liquid supplied: | 300kPa |

| Test | Calibrated Stain area | Total stain area on undergarment | Conclusion |
|--------|-----------------------|----------------------------------|------------|
| sample | (cm ²) | (cm ²) | |
| 1 | 3.63 | 0 | Pass |
| 2 | 3.63 | 0 | Pass |
| 3 | 3.63 | 0 | Pass |

Remark: All suits shall pass the test, i.e. the total area on any one undergarment of each suit shall be less than or equal to three times the total calibrated stain area.

Comment: The submitted sample complies with the requirements of EN 14605:2005+A1:2009 Clause 4.3 whole Suits Test for Type 4



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.

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