



# + Protective coverall



SAFETECH Protective coveralls are specifically designed for protection against bloodborne pathogens and viral exposures. From the fabric composition to the garment design

The SAFETECH Protective coveralls family of products is ideal for workers who may come into contact with bloodborne pathogens

The coveralls include an fixed hood and elastic wrists and ankles for optimal protection, and pass GB19082-2009 requirements for blood and viral protection.



## 取得国取得国外标准认证或注册的医疗物资生产企业清单

### Name List of Medical Devices and Supplies Companies with Certification/Authorization From other Conuntries

	生产企业	统一社会信用代码	国外注册 认证情况
二、	医用防护服Medical Protective Gowns		
200	福建顺邦防护科技有限公司 Fujian Safetech Protection Co.,Ltd	91110115596057832U	欧盟CE



## True Manufacturer Quality Assurance Manufacturer of disposable protection Clothing for medical use



Disposable protection clothing for medical use

Application: For medical personnel use against blood, body fluid, secretion and exposure biological hazard

Structure: Made of coated non-woven fabric and tape seam, one-piece coverall with elastic hood, cuffs and waist. Include sterile and Non-sterile two different types. The sterile type are processed by ethylene oxide sterilization



License no. :

Bureau of Fujian medical device supervision # 20200618

Company name:

Fujian safetech protection co.,ltd

Address:

No.6 road east, Tieling Industrial zone, Zone 1,  
Block 9, Jingxi town, Minhou county, Fuzhou





**CERTIFICATE No. 20/2565/01/0161**

PPE TYPE COVERALL

REF: DISPOSABLE PROTECTION COVERALL SPFH001



**AITEX, Notified Body No. 0161 for the application of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9th March 2016, in which the essential health and safety requirements that Personal Protective Equipment (PPE) must comply with.**

**CERTIFIES The Company:**

Fujian Safetech Protection Co., Ltd

No.6 road east, Tieling Industrial zone, Zone 1, Block 9, Jingxi town

Minhou county, Fuzhou

Fujian province, China

As a manufacturer

**EU type certificate**



## CERTIFICATE No. 20/2565/01/0161

Has obtained EU TYPE EXAMINATION in compliance with what is set out in Annex V (module B) in Regulation (EU) 2016/425 and in agreement with the applicable test procedures and technical specifications

Destined to the protection of entire body of the user, except feet, hands and face., according to the following standard/s:

- EN 340:2003 and EN ISO 13688:2013 General Requirements.
- EN 1149-5:2018 against the risk of accumulation of electrostatic loads.
- EN 13034: 2005 + A1: 2009 for protection against chemical risks as a complete suit (**Type [6]**) against chemical liquids sodium hydroxide (10%) with **Level (3/3)**, sulfuric acid (30%) with **Level (3/3)**, o-Xylene with **Level (3/3)** and 1-Butanol with **Level (3/3)**.
- EN ISO 13982-1: 2004/A1:2010 for the protection against risks of penetration of solid particles suspended in the air as a complete path (**Type 5**) according to EN ISO 13982-2: 2004.
- EN 14126:2003/AC:2004 to protection against infective agents (**Type 4-B, Type 5-B and Type 6-B**), being for Resistance to penetration of contaminated liquids under hydrostatic pressure (**Class 6**), for Resistance to the penetration of biological agents by mechanical contact with substances containing contaminated liquids (**Class 1**), and for Penetration resistance of contaminated solid particles (**Class 3**) and EN 14605:2005+A1:2009 for protection (**Type [4]** equipment) against liquid chemicals: Bleach 4% (**Level 6**).
- EN 14605:2005+A1:2009 for protection (**Type [4]** equipment) against liquid chemical: Bleach 4% (**Level 6**).

The garment does **not** allow washing.

Having achieved the performance requirements specified in conformity assessment report No. **2020CN0307UE** and the PPE's Technical Documentation.

Description of the PPE:

- Coverall made in white non-woven fabric with an exterior white laminated.

The materials that form the PPE, are described in the conformity assessment report nº 2020CN0307UE.

It shall be the manufacturer's responsibility to provide specific information of this certificate and the tested levels of protection.

**The CAT. III PPE shall only be used in conjunction with one of the conformity assessment procedures according to module C2 or module D described in article 19 letter c) of the Regulation (EU) 2016/425.**

**Ed.[01]. This certificate edition cancels and replaces previous editions.**

Digitally Signed by: Silvia Devesa

Date: 28/01/2021 18:32:38

Location: Alcoy

Silvia Devesa Valencia  
Laboratory Subdirector and Innovation

Date of issue of the Certificate: 21st of May 2020

Date of expiry: 21st of May 2025

## EVALUATION OF THE CONFORMITY

**2020CN0209UE**

### APPLICATION DATE

26/03/2020

### APPLICANT

FUJIAN SAFETECH PROTECTION CO., LTD  
No.6 road east, Tieling Industrial zone,  
Zone 1, Block 9, Jing  
FUZHOU

### IDENTIFICATION AND DESCRIPTION OF SAMPLES

#### REFERENCES

DISPOSABLE PROTECTION COVERALL SPFH001

### TESTS CARRIED OUT

- OBSERVATIONS
- DESCRIPTION OF SAMPLE
- EVALUATION FOR EU TYPE CERTIFICATION
- CONCLUSION OF THE CONFORMITY EVALUATION

RESEARCHER: DAVID TORRES / JUAN CARLOS TORRES

www.safetech.com



## OBSERVATIONS

PPE TYPE COVERALL referenced DISPOSABLE PROTECTION COVERALL SPFH001 presented for the "EU" Type certification to comply with the Regulation (EU) 2016/425, based on the standards EN 340:2003 and EN ISO 13688:2013, EN 13034:2005+A1:2009, EN ISO 13982-1:2004/A1:2010, EN 14126:2004/AC:2006.

The customer has presented the following documentation:

- Technical documentation with:
  1. PPE description and end use.
  2. Risks assessment.
  3. Essential requirements for health and safety.
  4. Pictures or plans.
  5. Identity or signs indications in what refers to health and safety.
  6. Achieved levels on the tests, degrees and protection classes.
  7. Control means.
- Informative leaflet with:
  1. Name and full address of the manufacturer.
  2. Instructions of use, cleaning, storing and maintenance.
  3. Achieved levels on the tests, degrees and protection classes.
  4. Compliance pictograph.
  5. PPE manufacturing or expiration date.
  6. Packaging type.
  7. Protection against risks.
  8. Reference to the Regulation.
  9. Name, address and identification number of the notified body.
  10. Standard (s) used, including the date.
  11. How EU type declaration of conformity can be accessed.

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## OBSERVATIONS

The customer has presented the following samples:

- Forty (40) garments from the PPE DISPOSABLE PROTECTION COVERALL SPFH001 T/L

With compliance to the Regulation (EU) 2016/425.

The PPE described in the present report has been submitted to EU Type examination and after its fulfillment, the certificate has been issued giving conformity of the model with the standards EN 340:2003 and EN ISO 13688:2013, EN 13034:2005+A1:2009, EN ISO 13982-1:2004/A1:2010, EN 14126:2004/AC:2006.

The CAT. III PPE shall only be used in conjunction with one of the conformity assessment procedures according to Module C2 or Module D described in Article 19 letter c) of the Regulation (EU) 2016/425.

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## DESCRIPTION OF SAMPLES

### DISPOSABLE PROTECTION COVERALL SPFH001

Coverall made in white non-woven fabric with an exterior white laminated.



The PPE is made in with the following materials according to technical documentation presented by the client:

- White non-woven fabric an exterior white laminated – composition: 100% polypropylene with polyethylene lamination with an approximate weight of 63g/m<sup>2</sup>.
- Plastic zip with metal pull (central closure)
- Elasticated tape (cuffs and bottoms)
- Logo

The PPE is available in the following sizes:

SIZES	Chest (cm)	Total height (cm)
S	112	162-170
M	120	170-176
L	130	176-182
XL	138	182-188
2XL	146	188-194
3XL	156	194-200

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## SUMMARY

### DISPOSABLE PROTECTION COVERALL SPFH001 IN ACCORDANCE WITH THE STANDARD EN 340:2003 AND EN ISO 13688:2013

TEST	RESULTS	REQUISITES	REPORT No.
Determination of chromium (VI)	Not applicable	< 3mg/kg	---
Nikel discharge	Not applicable	< 0,5 $\mu$ g/cm <sup>2</sup> for week	---
pH determination	White fabric Achieved 7,60	Between 3,5 and 9,5	2020CN0210
	Blue fabric Achieved 6,90		
Determination of forbidden azoic colorants	Blue fabric Not detected	None detected	2020CN0210
Design	Achieved	Point 4.4 in the standard	2020CN0210
Ergonomics	Achieved	Point 4 in the standard	2020CN0210
Dimensional stability	Not applicable	According to the point 5.3 of the standard EN ISO 13688 $\leq \pm 3\%$ (woven) or $\leq \pm 5\%$ (knitted)	---
Sizing	Achieved	Point 6 in the standard	2020CN0210
Marking	Achieved	Point 7 in the standard	2020CN0209UE



## SUMMARY

### DISPOSABLE PROTECTION COVERALL SPFH001 IN ACCORDANCE WITH THE STANDARD EN 13034:2005+A1:2009

TEST	RESULTS	REQUISITES	REPORT No.
Design	Achieved	Point 5.1 in the standard	2020CN0210
Resistance to abrasión	Level 2 > 100 cycles	Level 2 100 N < N < 500 N	2020CN0210
Determination of tear resistance	Level 2 Warp: 60,77 N Weft: 28,95 N	Level 2 20 N < N < 40 N	2020CN0210
Tensile resistance	Level 1 Warp: 120 N Weft: 57 N	Level 1 30 N < N < 60 N	2020CN0210
Bursting strength	Not applicable	the standard EN 14325:2004	---
Puncture resistance	Level 1 8,41 N	Level 1 5 N < N < 10 N	2020CN0210
Repellency to liquids	Level 3 H <sub>2</sub> SO <sub>4</sub> (30%) Level 3 NaOH (10%) Level 3 o- Xylene Level 3 1-Butanol	Level 3 > 95%	2020CN0210
Resistance to penetration to liquids	Level 3 H <sub>2</sub> SO <sub>4</sub> (30%) Level 3 NaOH (10%) Level 3 o- Xylene Level 3 1-Butanol	Level 3 < 1%	2020CN0210
Determination of resistance to liquid penetration by spray	Achieved	Shall not produce penetration	2020CN0210
Seam strength	Level 2 74,38 N	Level 2 50 N < N < 75 N	2020CN0210
Marking	Achieved	According to section 6 of the standard	2020CN0209UE



## SUMMARY

### DISPOSABLE PROTECTION COVERALL SPFH001 IN ACCORDANCE WITH THE STANDARD EN ISO 13982-1:2004/A1:2010

TEST	RESULTS	REQUISITES	REPORT No.
Resistance to abrasion	Level 2	Level 2 > 100 cycles	2020CN0210
Resistance to flex cracking	Level 6 > 100000 cycles	Level 6 > 100000 cycles	2020CN0210
Determination of tear resistance	Level 2 Warp: 60,77 N Weft: 28,95 N	Level 2 > 20 N	2020CN0210
Puncture resistance	Level 1 8,41 N	Level 1 > 5 N	2020CN0210
Resistance to flaming	Not applicable	No drops formed Self-extinction $\leq 5$ s. of afterflame	---
Seam strength	Level 2 74,38 N	Level 2 > 50 N	2020CN0210
Inward leakage of aerosols of fine particles into suits	Cumple	$IL_{82/90} \leq 30\%$ y $TILS_{8/10} \leq 15\%$	2020CN0210
Marking	Achieved	According to section 5 of the standard	2020CN0209UE



## SUMMARY

### DISPOSABLE PROTECTION COVERALL SPFH001 IN ACCORDANCE WITH THE STANDARD EN 14126:2004/AC:2006

TEST	RESULTS	REQUISITES	REPORT No.
Resistance to abrasión	Level 3 > 100 cycles	Level 3 > 100 cycles	2020CN0210
Compression-folding flex cracking	Level 6 > 100000 cycles	Level 6 > 100000 cycles	2020CN0210
Compression-folding flex cracking at -30°C	Level 6 > 4000 cycles	Level 6 > 4000 cycles	2020CN0210
Determination of tear resistance	Level 2 Warp: 60,77 N Weft: 28,95 N	Level 2 20 N < N < 40 N	2020CN0210
Tensile strength resistance	Level 1 Warp: 120 N Weft: 57 N	Level 1 30 N < N < 60 N	2020CN0210
Resistance to puncture	Level 1 8,41 N	Level 1 5 N < N < 10 N	2020CN0210
Ignition resistance	No pass	Not inflame	2020CN0210
Flame resistance	Not tested	Shall not form droplets Afterflame time ≤ 5 s	---
Resistance to permeation by chemicals	Achieved	Shall not produce penetration	2020CN0210
Repellancy to liquids	Level 3 H2SO4 (30%) Level 3 NaOH (10%) Level 3 o- Xylene Level 3 1-Butanol	Level 3 > 90%	2020CN0210
Resistance to penetration to liquids	Level 3 H2SO4 (30%) Level 3 NaOH (10%) Level 3 o- Xylene Level 3 1-Butanol	Level 3 < 1%	2020CN0210



## SUMMARY

### DISPOSABLE PROTECTION COVERALL SPFH001 IN ACCORDANCE WITH THE STANDARD EN 14126:2004/AC:2006

TEST	RESULTS	REQUISITES	REPORT No.
Resistance to penetration of contaminated liquids under hydrostatic pressure	Class 6 > 20 kPa	Class 6 > 20 kPa	2020CN0210
Resistance to the penetration of biological agents by mechanical contact with substances containing contaminated liquids	Class 1 $t \leq 15$ min	Class 1 $t \leq 15$ min	2020CN0210
Penetration resistance of contaminated liquid aerosols	Not tested	Class 1 $1 < \log \leq 3$ Class 2 $3 < \log \leq 5$ Class 3 $\log > 5$	---
Penetration resistance of contaminated solid particles	Class 3 $\leq 1$	Class 1 $2 < \log ufc \leq 3$ Class 2 $1 < \log ufc \leq 2$ Class 3 $\leq 1$	2020CN0210
Seam strength	Level 2 74,38 N	Level 2 $50 \text{ N} < N < 75 \text{ N}$	2020CN0210
Marking	Achieved	Point 5 in the standard	2020CN0209UE



## CONCLUSION OF THE CONFORMITY EVALUATION

AITEX, Notified Body N° 0161, concludes that:

The PPE DISPOSABLE PROTECTION COVERALL SPFH001, complies with all essential Requirements as regards health and safety in compliance with the indications in (EU) 2016/425 in compliance with harmonised standards EN 340:2003 and EN ISO 13688:2013 General Requirements, EN 13034: 2005 + A1: 2009 for protection against chemical risks as a complete suit (**Type [6]**) against chemical liquids sodium hydroxide (10%), sulfuric acid (30%), o-Xylene and 1-Butanol and EN ISO 13982-1: 2004 / A1: 2010 for the protection against risks of penetration of solid particles suspended in the air as a complete path (**Type 5**) according to EN ISO 13982-2: 2004 and EN 14126:2003/AC:2004 to protection against infective agents (**Type 5-B** and **Type 6-B**).

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**Lucia Martinez**  
**Head of PPE and Ballistics department**

Digitally signed by ISABEL LLOPIS  
LUMBRERAS - NIF 216705510  
Date: 2020.04.27 12:45:46 +00:00  
Reason: Autorizado  
Location: Alcoy



#### LIABILITY CLAUSES

- 1.- AITECH is liable only for the results of the methods of analysis used, as expressed in the report and referring exclusively to the materials or samples indicated in the same which are in its possession, the professional and legal liability of the Centre being limited to these. Unless otherwise stated, the samples were freely chosen and sent by the applicant.
- 2.- AITECH shall not be liable in any case of misuse of the test materials nor for undue interpretation or use of this document
- 3.- The Offer and / or Order to which the applicant gives approval through signature and seal, constitutes the Legally Executable Agreement in which AITECH is responsible for safeguarding and guaranteeing the absolute confidentiality of the management of all the information obtained or created during the performance of the contracted activities.
- 4.- In the eventuality of discrepancies between reports, a check to settle the same will be carried out in the head offices of AITECH. Also, the applicants undertake to notify AITECH of any complaint received by them as a result of the report, exempting this Centre from all liability if such is not done, the periods of conservation of the samples being taken into account.
- 5.- AITECH is not responsible for the information provided by customers, which is reflected in the Report, and may affect the validity of the results.
- 6.- AITECH will provide at the request of the person concerned, the treatment of complaints procedure.
- 7.- AITECH is not responsible for an inadequate state of the sample received that could compromise the validity of the results, expressing such circumstance, in the test reports.
- 8.- AITECH may include in its reports, analyses, results, etc., any other evaluation which it considers necessary, even when it has not been specifically requested.
- 9.- When a Declaration of Conformity is requested, if not indicated otherwise, the decision rule will be applied according to ILAC-G8 & ISO 10576-1, in case of ambiguity, or indeterminacy
- 10.- The uncertainties of tests, which are made explicit in the Results Report, have been estimated for a  $k = 2$  (95% probability of coverage). If not informed, they are available to the client in AITECH.
11. - The original materials and rests of samples, not subject to test, will be retained in AITECH during the twelve months following the issuance of the report, so that any check or claim which, in his case, wanted to make the applicant, should be exercised within the period indicated.
- 12.- This report may only be sent or delivered by hand to the applicant or to a person duly authorised by the same.
- 13.- The results of the tests and the statement of compliance with the specification in this report refer only to the test sample as it has been analyzed / tested and not the sample / item which has taken the test sample.
- 14.- The client must attend at all times, to the dates of the realization of the tests.
- 15.- According to Resolution EA (33) 31, the test reports must include the unique identification of the sample, and any brand or label of the manufacturer may be added. It is not allowed to re-issue test reports of untested sample names (references), they can only be re-issued for error correction or inclusion of omitted data that were already available at the time of the test. The laboratory can not assume responsibility for declaring that the product with the new trade name / trademark is strictly identical to the one originally tested; This responsibility belongs to the client.



# TEST REPORT

**2020CN0402**

## DATE OF RECEPTION

28/04/2020

## DATE TESTS

Starting: 28/04/2020

Ending: 15/05/2020

## APPLICANT

FUJIAN SAFETECH PROTECTION CO., LTD  
No.6 road east,Tieling Industrial zone,  
Zone 1, Block 9, Jingxi town,  
Minhou county, Fuzhou,  
Fujian province,  
China

## IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCES
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DISPOSABLE PROTECTION COVERALL SPFH001
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## TESTS CARRIED OUT

- DETERMINATION OF FLEX CRACKING AND CRACK GROWTH.
- THICKNESS\*.
- MASS PER UNIT AREA\*.
- RESISTANCE TO PERMEATION BY CHEMICALS.
- DETERMINATION OF RESISTANCE TO PENETRATION BY SPRAY.
- RESISTANCE TO PENETRATION BY LIQUIDS UNDER PRESSURE\*.
- SPECIFIC DESIGN REQUIREMENTS.
- CHARGE DECAY.
- DETERMINATION OF INWARD LEAKAGE OF AEROSOLS OF FINE PARTICLES INTO SUITS.
- DETERMINATION OF BLOCKING RESISTANCE\*.

Tests marked with \* are not included within the scope of the ENAC accreditation





## RESULTS

### DETERMINATION OF FLEX CRACKING AND CRACK GROWTH

**Standard**

EN ISO 7854:1997 Method B

**Used apparatus**

Crumple/flex equipment  
Cell pressure equipment

**Pre-Treatment**

As received.

**Test temperature**

-30 °C

Reference Specimen	DISPOSABLE PROTECTION COVERALL SPFH001	
	Direction	Flex cycles
Specimen 1	Lengthwise	> 4000
Specimen 2	Lengthwise	> 4000
Specimen 3	Lengthwise	> 4000
Specimen 4	Crosswise	> 4000
Specimen 5	Crosswise	> 4000
Specimen 6	Crosswise	> 4000

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## RESULTS

PERFORMANCE LEVEL ACCORDING TO STANDARD EN 14325:2004    LEVEL 6

PERFORMANCE LEVEL ACCORDING TO STANDARD EN 14605:2005+A1:2009    PASS

### Requirements according to Standard EN 14325:2004, point 4.5

By the method of cell pressure examine the tightness of the specimens. The level of the material should be classified according to the lowest individual value obtained

Performance levels	Cycles
6	> 4 000
5	> 2 000
4	> 1 000
3	> 500
2	> 200
1	> 100

### Requirements according to Standard EN 14605:2005+A1:2009

Should obtain, at least, the level of benefit 1 in the classification according to EN 14325:2004

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## RESULTS

### THICKNESS\*

#### Standard

EN ISO 9073-2:1996 - Method A

#### Apparatus

Thickness meter SODEMAT

#### Test pressure

0.5 KPa

#### Atmosphere for conditioning and testing

Temperature (20±2) °C      Relative humidity (65±4) %

Reference			Average thickness (mm)	C.V. (%)
DISPOSABLE SPFH001 Non woven	PROTECTION	COVERALL	0.40	2.89
Reference			Average thickness (mm)	C.V. (%)
DISPOSABLE SPFH001 Seams	PROTECTION	COVERALL	1.39	7.04

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## RESULTS

### MASS PER UNIT AREA\*

**Standard**

EN ISO 2286-2:1998

**Conditioning date**

29/04/2020

**Test date**

06/05/2020

**Atmosphere for conditioning testing**

**Temperature** (20±2) °C

**Relative humidity**

(65±2) %

**State of the specimens**

Original

**Reference**

DISPOSABLE PROTECTION COVERALL SPFH001

Mass per unit area (g/m <sup>2</sup> )	CV (%)
63,88	1,45

Fabric	Mass per unit area (g/m <sup>2</sup> )	CV (%)
Substratum	35.9	2,2
Covering	28.0	4,19
Total mass	63.9	1,45



**RESULTS**

**RESISTANCE TO PERMEATION BY CHEMICALS**

**Standard**  
ISO 6529:2013

**Method**  
Method A (liquid chemical with continuous contact)

**Description of material tested**  
Laminated non-woven fabric, white colour

**Pretreatment**  
As received

**Analytical method**  
Conductivity

**Temperature**  
(23.2-23.5)°C

**Collection medium**  
Water

**System type**  
Closed loop

**Type of measurement**  
Continuous

**Test liquid**  
Household bleach (approx.4%)

**Test date**  
11/05/2020

**Measurement uncertainty**  
**Breakthrough Time (conductivity)** ±10.5% of the measured value in min

**Deviation from the Standard**  
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## RESULTS

Reference	Specimen	Thickness (mm)	Mass per unit area (g/m <sup>2</sup> )	Breakthrough time (min)
DISPOSABLE PROTECTION COVERALL SPFH001	1	0.40	35.9	>480
	2			>480
	3			>480
	Mean			>480
	Lower value			>480

### Observations

No changes

ACCORDING TO STANDARD EN 14605:2005+A1:2009

Level 6

### MARK

The performance levels indicated below are based on certain breakthrough times for constant contact with the chemical product, in normal laboratory conditions. The protection provided by the garment in the workplace may vary significantly from these performance levels.

### Performance levels according to EN 14605:2005+A1:2009

Breakthrough time (min)	> 10	> 30	> 60	> 120	> 240	> 480
Performance level	1	2	3	4	5	6

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## RESULTS

### RESISTANCE TO PERMEATION BY CHEMICALS

**Standard**

ISO 6529:2013

**Method**

Method A (liquid chemical with continuous contact)

**Description of material tested**

Laminated non-woven fabric, white colour with seam, blue colour

**Pretreatment**

As received

**Analytical method**

Conductivity

**Temperature**

(23.1-23.5)°C

**Collection medium**

Water

**System type**

Closed loop

**Type of measurement**

Continuous

**Test liquid**

Household bleach (approx.4%)

**Test date**

12/05/2020

**Measurement uncertainty****Breakthrough Time (conductivity)**

±10.5% of the measured value in min

**Deviation from the Standard**

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## RESULTS

Reference	Specimen	Thickness (mm)	Mass per unit area (g/m <sup>2</sup> )	Breakthrough time (min)
DISPOSABLE PROTECTION COVERALL SPFH001	1	1.39	63.9	>480
	2			>480
	3			>480
	Mean			>480
	Lower value			>480

### Observations

No changes

ACCORDING TO STANDARD EN 14605:2005+A1:2009

Level 6

### MARK

The performance levels indicated below are based on certain breakthrough times for constant contact with the chemical product, in normal laboratory conditions. The protection provided by the garment in the workplace may vary significantly from these performance levels.

### Performance levels according to EN 14605:2005+A1:2009

Breakthrough time (min)	> 10	> 30	> 60	> 120	> 240	> 480
Performance level	1	2	3	4	5	6

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## RESULTS

### DETERMINATION OF RESISTANCE TO PENETRATION BY SPRAY

**Standard**

EN ISO 17491-4:2008+A1:2016

**Apparatus**

Spray equipment according to EN ISO 17491-4:2008+A1:2016 Method B

**Reference**

DISPOSABLE PROTECTION COVERALL SPFH001

**Description of the absorbent suit**

One piece suit made with white absorbent fabric

**Description of any additional equipment**

Gumboots, gloves and full face mask

**Surface tension measured of the water test and composition**

Composition: Water, lactophenol blue, citric acid and moisturizing agent  
Surface tension: 30.3 mN/m

**Calibrated stain area**

1.09 cm<sup>2</sup>

**Spray nozzle**

Disk DC-04, Core CR-25

**Pressure of the liquid source**

Nozzle 1: 3 bar

Nozzle 2: 3 bar

Nozzle 3: 3 bar

Nozzle 4: 3 bar

**Temperature test**

20.3 °C

**Test uncertainty**

1.3 cm

**Conditioning**

**Temperature**

(20±2) °C

**Relative humidity**

(65±5) %

**Time**

At least 24 hours

**Sizing of the garment**

L

**Pre-treatment**

As received

**Test date**

28/04/2020

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## RESULTS

Sequence of movements according to standard

	Mov. 1	Mov. 2	Mov. 3	Mov. 4	Mov. 5	Mov. 6	Mov. 7
<b>Sample 1</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass
<b>Sample 2</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass
<b>Sample 3</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Results

Sample 1	Penetration Zone	Total number of penetration spots	Stain area in the penetration zone (cm <sup>2</sup> )	Total stain area (cm <sup>2</sup> )	Calibrated stain area (cm <sup>2</sup> )	REQUIREMENT ACCORDING TO STANDARD EN 14605:2005+A1:2009
	--	--	--	--	1.09	≤ 3.27

Sample 2	Penetration Zone	Total number of penetration spots	Stain area in the penetration zone (cm <sup>2</sup> )	Total stain area (cm <sup>2</sup> )	Calibrated stain area (cm <sup>2</sup> )	REQUIREMENT ACCORDING TO STANDARD EN 14605:2005+A1:2009
	--	--	--	--	1.09	≤ 3.27

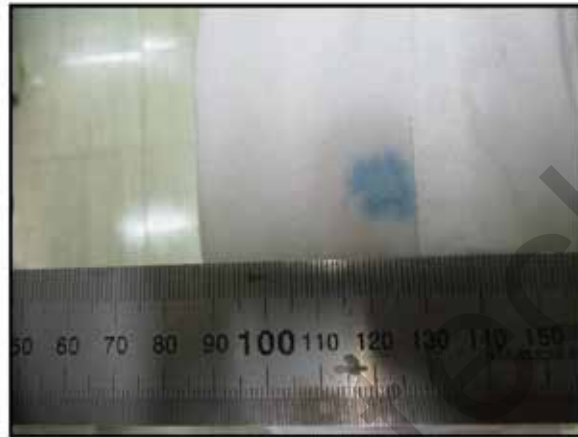
Sample 3	Penetration Zone	Total number of penetration spots	Stain area in the penetration zone (cm <sup>2</sup> )	Total stain area (cm <sup>2</sup> )	Calibrated stain area (cm <sup>2</sup> )	REQUIREMENT ACCORDING TO STANDARD EN 14605:2005+A1:2009
	--	--	--	--	1.09	≤ 3.27

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## RESULTS

Picture of the additional garment



Calibrated stain

### REQUIREMENT ACCORDING TO STANDARD EN 14605:2005+A1:2009

All chemical protective suits shall pass the test, i.e. there shall be no penetration of any suit. The total stain area on the undergarment shall be less than or equal to three times the total calibrated stain area.

ACCORDING TO STANDARD EN 14605:2005+A1:2009

PASS

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## RESULTS

### RESISTANCE TO PENETRATION BY LIQUIDS UNDER PRESSURE\*

Standard: ISO 13994:2005

Method: A

- 0 kPa for 5 min
- 13.8 kPa for 10 min

Test liquid: Distilled water

Temperature: 22 °C ± 2 °C

Test date : 15/05/2020

Reference	Resistance to Penetration
DISPOSABLE PROTECTION COVERALL SPFH001	PASS
	PASS
	PASS



## RESULTS

### SPECIFIC DESIGN REQUIREMENTS

#### REFERENCE

DISPOSABLE PROTECTION COVERALL SPFH001

#### STANDARD

EN 340:2003 and EN ISO 13688:2013

#### DESIGN REQUIREMENTS

The protection clothing design makes easy its correct placement and wearing staying with no movement during the use period intended.	PASS
The design of the protective clothing applies elements from other protective or equipment clothing, which are used to create a comprehensive protective outfit.	PASS
The clothing has no rough, sharp or hard surfaces or edges that could damage or irritate the user.	PASS
The clothing is not enough narrow for causing flow blood restriction.	PASS
The clothing is not enough loose and heavy for interfering the user's movement.	PASS

#### Remark

N/A: Not applicable

///



## RESULTS

### SPECIFIC DESIGN REQUIREMENTS

#### REFERENCE:

DISPOSABLE PROTECTION COVERALL SPFH001

#### STANDARD

EN 13034:2005+A1:2009, point 5.1

#### DESIGN REQUIREMENTS

The type 6 chemical protection clothing meets the relevant requirements of the Standard EN 340:2003	PASS
The garment allows the user to move freely, in as much comfort as possible, in accordance with the protection the garment provides.	PASS
There are no special characteristics about the clothing where liquid chemical products can be collected and retained on the material surface (the pockets are protected)	PASS

#### Remark

N/A: Not applicable

///



## RESULTS

### SPECIFIC DESIGN REQUIREMENTS

#### REFERENCE

DISPOSABLE PROTECTION COVERALL SPFH001

#### STANDARD

EN ISO 13982-1:2004/A1:2010, point 4.3

#### DESIGN REQUIREMENTS

The type 5 chemical protection clothing meets the general requirements of the Standard EN 340:2003	PASS
The clothing at least protects the torso, the arms and the legs, and is a one piece overall or a two piece suit.	PASS
The garment allows the user to move freely, in as much comfort as possible, in accordance with the protection the garment provides.	PASS

///



## RESULTS

### REQUISITOS DE DISEÑO SPECIFIC DESIGN REQUIREMENTS

#### REFERENCIA REFERENCE

DISPOSABLE PROTECTION COVERALL SPFH001

#### STANDARD

EN 14126:2003/AC, punto / point 4.3

#### DESIGN REQUIREMENTS

Protective clothing against infective agents meets the requirements that apply of the Standard ISO 13688:2013	PASS
Protective clothing against infective agents meets the requirements specified in the appropriate chemical protection Standard	PASS
The garment allows the user to move freely, in as much comfort as possible, in accordance with the protection the garment provides.	PASS

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## RESULTS

### SPECIFIC DESIGN REQUIREMENTS

#### REFERENCE

DISPOSABLE PROTECTION COVERALL SPFH001

#### STANDARD

EN 1073-2: 2002

#### DESIGN REQUIREMENTS

Non-ventilated protective clothing against radioactive contamination must comply with the general requirements of EN 340.	PASS
The design of protective clothing should be such that it is easy to wear or remove and, at the same time, minimize the risk of contamination and physiological stress. It is tested according to the "practical behavior test".	PASS
Clothing can be designed for single use or reusable.	PASS
Protective clothing may consist of one or more garments designed to be worn together, may incorporate attachments permanently attached, may be designed to attach to such accessories and / or be designed for use without attachments. When necessary, the performance of the clothing is tested with any accessory, attached in accordance with the manufacturer's instructions, and the information supplied by the manufacturer must be clear in this regard.	PASS

#### Remark

N/A: Not applicable

///



## RESULTS

### SPECIFIC DESIGN REQUIREMENTS

#### REFERENCE

DISPOSABLE PROTECTION COVERALL SPFH001

#### STANDARD

EN 1149-5:2018

#### DESIGN REQUIREMENTS

Electrostatic dissipative protective clothing shall permanently cover all non-complying materials during normal use (inclusive of bending and movements)	PASS
Garment shall provide proper fitting with sizing according to EN ISO 13688, and shall allow full body movement with all closures fastened according to manufacturer's instructions.	PASS
Conductive parts (slide fasteners, buttons, etc.) are permitted provided they are fully covered by the outermost electrostatic dissipative materials when in use.	PASS
Non-dissipative attachments to the outside of garments, such as labels, reflective stripes, etc., are permitted without length restriction providing they do not exceed 50 mm in width and are permanently attached to electrostatic dissipative materials. Non-dissipative attachments to the outside of garments greater in width than 50 mm shall be restricted to a maximum area of 10 000 mm <sup>2</sup> , and shall be permanently attached to electrostatic dissipative materials.	PASS
Any hood that has a non-dissipative material that is exposed when the hood is not worn shall be capable of being removed or stowed within the garment such that non-dissipative materials are covered by dissipative materials.	N/A
Exposed cords shall not exceed 20 mm in width.	N/A
Attachments to the outside of garments greater in thickness, width or area than the specified limits are only permitted if test data are available to prove incendiary discharges cannot occur under worst case conditions. Users are recommended to take expert advice to select and conduct suitable testing and test conditions.	PASS
Attachment to the outside of garments shall be done in such a way that separation between the attached elements and the electrostatic dissipative material is avoided.	PASS

#### Remark

N/A: Not applicable

///



## RESULTS

### CHARGE DECAY

**Standard**

EN 1149-3:2004 (Method 2, induction charging)

**Conditioned**

24h environmental conditions to  $(23 \pm 1)$  °C and  $(25 \pm 5)$  % RH

**Ambient conditions test**

23,0 °C and 26,9 % RH

**Test method used**

Induction charge (Test method 2)

**Potential applied**

$(1200 \pm 50)$  V in 30  $\mu$ s

**Time measurement**

30 s

**Deviation from the Standard**

---

**Tested material**

White laminated fabric.

**Measurement uncertainty**

Shielding factor:  $\pm 0,02$

$t_{50}$ :  $\pm 0,01$  s

>>>



## RESULTS

### Pre-Treatment

As received

Reference		DISPOSABLE PROTECTION COVERALL SPFH001	
Specimen	Decay half time (s)		Shielding factor (units) S
	$t_{50}$		
1	0,33		0,03
2	0,40		0,03
3	0,72		0,03
<b>Average</b>	<b>0,48</b>		<b>0,03</b>

ACCORDING TO STANDARD EN 1149-5:2018

PASS

ACCEPTANCE CRITERION ACCORDING TO EN 1149-3:2004 AND EN 1149-5:2018, METHOD INDUCTION CHARGING

$$t_{50} < 4s \text{ or } S > 0,2$$

Where,  $t_{50}$  = decay half time  
S = shielding factor

### Start and finish test date

29/04/2020 - 30/04/2020

///



## RESULTS

### DETERMINATION OF INWARD LEAKAGE OF AEROSOLS OF FINE PARTICLES INTO SUITS

**Standard**

EN ISO 13982-2:2004

**Test date**

27/03/2020 - 31/03/2020

**Reference**

DISPOSABLE PROTECTION COVERALL SPFH001

The physical dimensions of the wearers are shown below

Wearer	Height (m)	Chest (cm)	Size of the suit
ACJ	1.70	100	L
ELL	1.71	101	L
JGV	1.72	100	L

**Pre-treatment**

As received

**Description of the suit**

The suit is a white material one-piece hooded coverall incorporating elasticated wrists, waist, ankles and hood. There is a single action zip at the front of the suit, which runs from the crotch to the neck, which is covered during use by one flap with adhesive.

**Description of the undergarment**

Wearer wore close fitting polyester/cotton long trousers and long sleeve T-shirts.

**Description of any additional equipment**

Half mask, wellington boots and nitrile disposable gloves.

**Deviation of the standard**

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## RESULTS

### Ambient conditions test

Temperature= 20.1°C-21.0°C

Relative Humidity= 49.0%-56.1%

### The outcomes of the tests were as follows:

In response to the question "does the suit fit", test subject answered "Yes".

After testing in accordance with the movements defined in clause 4.3.2 of EN ISO 13982-2:2004, no damage to the suit was observed.

### Sequence of movements according to standard

	Mov. 1	Mov. 2	Mov. 3
Suit 1	Pass	Pass	Pass
Suit 2	Pass	Pass	Pass
Suit 3	Pass	Pass	Pass
Suit 4	Pass	Pass	Pass
Suit 5	Pass	Pass	Pass
Suit 6	Pass	Pass	Pass

### Measurement of concentrations

	Concentration				
	Before the test (%)			Inside the chamber after the stabilization (mg/m <sup>3</sup> )	Inside the chamber at the end of all exercises of the test (mg/m <sup>3</sup> )
	Knee	Waist	Chest		
Suit 1	0.000	0.001	0.000	5.65	5.65
Suit 2	0.001	0.002	0.002	5.21	5.01
Suit 3	0.004	0.005	0.001	6.32	6.06
Suit 4	0.001	0.002	0.001	6.21	5.62
Suit 5	0.003	0.001	0.002	5.68	5.87
Suit 6	0.000	0.000	0.001	4.98	4.99

>>>



## RESULTS

Inward leakage individual results are (%):

WEARER	POSITION	Knee	Waist	Chest	Average
ACJ	Stand	1.130	3.660	3.880	2.890
	Walk	1.660	1.200	1.610	1.490
	Squat	15.820	12.630	16.700	15.050
	Average	6.203	5.830	7.397	6.477
ACJ	Stand	2.190	3.320	4.080	3.197
	Walk	1.890	4.200	3.960	3.350
	Squat	16.530	21.630	21.520	19.893
	Average	6.870	9.717	9.853	8.813
ELL	Stand	18.320	3.430	14.230	11.993
	Walk	6.450	6.770	7.820	7.013
	Squat	19.200	12.040	14.790	15.343
	Average	14.657	7.413	12.280	11.450
ELL	Stand	1.910	0.340	0.230	0.827
	Walk	0.780	1.670	2.260	1.570
	Squat	6.260	5.550	5.030	5.613
	Average	2.983	2.520	2.507	2.670
JGV	Stand	10.060	9.690	10.860	10.203
	Walk	11.780	4.610	2.360	6.250
	Squat	12.750	16.410	15.700	14.953
	Average	11.530	10.237	9.640	10.469
JGV	Stand	2.750	5.630	11.950	6.777
	Walk	2.330	4.370	15.470	7.390
	Squat	9.450	18.070	18.060	15.193
	Average	4.843	9.357	15.160	9.787

>>>



## RESULTS

Average value of the leakage inwards in the three sampling positions inside the suit, during the realization of a single activity. (TIL<sub>E</sub>)\*

POSITION	Average
Stand	5.981
Walk	4.511
Squat	14.341

TIL <sub>E</sub>	14.34
------------------	-------

Average value of the leakage inwards in the three sampling positions inside the suit, during the realization of all activities. (TIL<sub>A</sub>)\*

TIL <sub>A</sub>	8.27
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Nominal factor of protection

Nominal factor of protection	12.09
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## RESULTS

Pictures



>>>



## RESULTS

### REQUIREMENTS ACCORDING TO STANDARD EN 1073-2:2002

When tested in accordance with EN 1073-2:2002 the radioactive protective clothing shall be characterized by the following parameters:

- $TIL_E$  (%) = Average value of the leakage inwards in the three sampling positions inside the suit, during the realization of a single activity.<sup>(1)</sup>
- $TIL_A$  (%) = Average value of the leakage inwards in the three sampling positions inside the suit, during the realization of all activities.
- Nominal factor of protection =  $100:TIL_A$

<sup>(1)</sup> When the average of activities have been calculated, the value that marks the classification ( $TIL_E$ ) is the most restrictive. (The highest value)

The radioactive protective clothing shall meet at least level 1 of classification to point 4.3 of standard EN 1073-2:2002.

### Performance levels according to EN 1073-2:2002

LEVEL	$TIL_E$ (%)	$TIL_A$ (%)	Nominal factor of protection
3	0.3	0.2	500
2	3	2	50
1	30	20	5

ACCORDING TO STANDARD EN 1073-2:2002

LEVEL 1

///



## RESULTS

### RESISTANCE TO PERMEATION BY CHEMICALS

**Standard**

ISO 6529:2013

**Method**

Method A (liquid chemical with continuous contact)

**Description of material tested**

Laminated non-woven fabric, white colour

**Pretreatment**

As received

**Analytical method**

Conductivity

**Temperature**

23.4°C

**Collection medium**

Water

**System type**

Closed loop

**Type of measurement**

Continuous

**Test liquid**

Sulphuric acid 30 % (CAS Number: 7664-93-9)

**Test date**

08/05/2020

**Measurement uncertainty****Breakthrough Time (conductivity)**

±10.5% of the measured value in min

**Deviation from the Standard**

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>>>



## RESULTS

Reference	Specimen	Thickness (mm)	Mass per unit area (g/m <sup>2</sup> )	Breakthrough time (min)
DISPOSABLE PROTECTION COVERALL SPFH001	1	0.40	35.9	<1
	2			<1
	3			2
	Mean			1
	Lower value			<1

### Observations

Slight degradation

ACCORDING TO STANDARD EN 14605:2005+A1:2009

Level -

### MARK

The performance levels indicated below are based on certain breakthrough times for constant contact with the chemical product, in normal laboratory conditions. The protection provided by the garment in the workplace may vary significantly from these performance levels.

### Performance levels according to EN 14605:2005+A1:2009

Breakthrough time (min)	> 10	> 30	> 60	> 120	> 240	> 480
Performance level	1	2	3	4	5	6

\_\_\_\_\_ III



## RESULTS

### RESISTANCE TO PERMEATION BY CHEMICALS

**Standard**

ISO 6529:2013

**Method**

Method A (liquid chemical with continuous contact)

**Description of material tested**

Laminated non-woven fabric, white colour

**Pretreatment**

As received

**Analytical method**

Conductivity

**Temperature**

23.1°C

**Collection medium**

Water

**System type**

Closed loop

**Type of measurement**

Continuous

**Test liquid**

Sodium Hydroxide 40% (CAS Number: 1310-73-2)

**Test date**

07/05/2020

**Measurement uncertainty****Breakthrough Time (conductivity)**

±10.5% of the measured value in min

**Deviation from the Standard**

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&gt;&gt;&gt;



## RESULTS

Reference	Specimen	Thickness (mm)	Mass per unit area (g/m <sup>2</sup> )	Breakthrough time (min)
DISPOSABLE PROTECTION COVERALL SPFH001	1	0.40	35.9	<1
	2			<1
	3			<1
	Mean			<1
	Lower value			<1

### Observations

No changes

ACCORDING TO STANDARD EN 14605:2005+A1:2009

Level -

### MARK

The performance levels indicated below are based on certain breakthrough times for constant contact with the chemical product, in normal laboratory conditions. The protection provided by the garment in the workplace may vary significantly from these performance levels.

### Performance levels according to EN 14605:2005+A1:2009

Breakthrough time (min)	> 10	> 30	> 60	> 120	> 240	> 480
Performance level	1	2	3	4	5	6

///



## RESULTS

### DETERMINATION OF BLOCKING RESISTANCE\*

#### Standard

EN 25978:1993

#### Atmosphere for conditioning and testing

Temperature

(60-70) °C

Relative Humidity

(≤10) %

#### Total mass of test specimen

5 kg.

Reference	Evaluation of Resistance to adhesion contact
DISPOSABLE PROTECTION COVERALL SPFH001	
Specimen 1: Face + Face	<b>2 No adhesion of contact:</b> separate surfaces with no evidence of adhesion.
Specimen 2: Face + Back	<b>2 No adhesion of contact:</b> separate surfaces with no evidence of adhesion.
Specimen 3: Back + Back	<b>2 No adhesion of contact:</b> separate surfaces with no evidence of adhesion.

**CLASS 2**

#### REQUISITE ACCORDING TO EN 1073-2:2002

CLASSIFICATION	
2	<b>No adhesion of contact:</b> separate surfaces with no evidence of adhesion..
1	<b>Slight adhesion of contact:</b> during the separation can be seen some adhesion of coated surfaces, but without damage to the coating.



**Lucia Martinez**  
**Head of PPE and Ballistics department**



Digitally signed by JOSE MANUEL  
MILAN CUEVAS - NIF:15424182Z  
Date: 2020.05.29 11:25:59 +02:00  
Reason: Autorizada  
Location: Alcor

#### LIABILITY CLAUSES

- 1.- AITEX is liable only for the results of the methods of analysis used, as expressed in the report and referring exclusively to the materials or samples indicated in the same which are in its possession, the professional and legal liability of the Centre being limited to these. Unless otherwise stated, the samples were freely chosen and sent by the applicant.
- 2.- AITEX shall not be liable in any case of misuse of the test materials nor for undue interpretation or use of this document
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- 5.- AITEX is not responsible for the information provided by customers, which is reflected in the Report, and may affect the validity of the results.
- 6.- AITEX will provide at the request of the person concerned, the treatment of complaints procedure.
- 7.- AITEX is not responsible for an inadequate state of the sample received that could compromise the validity of the results, expressing such circumstance, in the test reports.
- 8.- AITEX may include in its reports, analyses, results, etc., any other evaluation which it considers necessary, even when it has not been specifically requested.
- 9.- When a Declaration of Conformity is requested, if not indicated otherwise, the decision rule will be applied according to ILAC-G8 & ISO 10576-1, in case of ambiguity, or indeterminacy
- 10.- The uncertainties of tests, which are made explicit in the Results Report, have been estimated for a  $k = 2$  (95% probability of coverage). If not informed, they are available to the client in AITEX.
- 11.- The original materials and rests of samples, not subject to test, will be retained in AITEX during the twelve months following the issuance of the report, so that any check or claim which, in his case, wanted to make the applicant, should be exercised within the period indicated.
- 12.- This report may only be sent or delivered by hand to the applicant or to a person duly authorised by the same.
- 13.- The results of the tests and the statement of compliance with the specification in this report refer only to the test sample as it has been analyzed / tested and not the sample / item which has taken the test sample.
- 14.- The client must attend at all times, to the dates of the realization of the tests.
- 15.- According to Resolution EA (33) 31, the test reports must include the unique identification of the sample, and any brand or label of the manufacturer may be added. It is not allowed to re-issue test reports of untested sample names (references), they can only be re-issued for error correction or inclusion of omitted data that were already available at the time of the test. The laboratory can not assume responsibility for declaring that the product with the new trade name / trademark is strictly identical to the one originally tested; This responsibility belongs to the client.



## EU DECLARATION OF CONFORMITY

Manufacturer: FUJIAN SAFETECH PROTECTION CO.,LTD

Address: No. 6 road east, Tieling industrial zone, Zone 1, block 9, Jingxi town, MinHou county Fuzhou, Fujian province, P.R. China

We, the manufacturer, declare under our sole responsibility that

The device(s) Disposable protection coverall SPFH001

is compliance with what is stated in Regulation (EU) 2016/425 and in agreement with the applicable test procedures and technical specifications.

Applied harmonized	<u>EN340:2003; ENISO13688:2013</u>
Standards, national	<u>EN13034:2005+A1:2009(Type 6)</u>
Standards or other	<u>ENISO 13982-1:2004(Type 5)</u>
Normative documents	<u>EN14126:2003/AC:2004(Type5-B/Type 6-B/Type4-B)</u>
	<u>EN 14605:2005/A1:2009(Type4)</u>
	<u>EN ISO 13688:2013</u>
	<u>EN 1073-2:2002</u>

The garment does not allow washing.

Having achieved the performance requirements specified in Technical Test Report No. 2020CN0209UE and the PPE's Technical Documentation.

Notified Body

(Name & Number) AITEX, Notified Body No. 0161

Certificate number 20/2565/00/0161

Signed on: May 18, 2020 Place: Fuzhou, Fujian, China

Signature(on behalf of the manufacturer

FUJIAN SAFETECH PROTECTION CO.,LTD

*Liu Yulin*  
Authorized Signature



Name of authorized signatory: Liu Yulin

Position held in the company: General Manager

## NOTIFICATION OF MODULE C2 APPLICATION FOR EU 20/2565/00/0161

TO:

FUJIAN SAFETECH PROTECTION CO., LTD  
No.6 road east, Tieling Industrial zone,  
Zone 1, Block 9, Jingxi town,  
Minhou county, Fuzhou,  
Fujian province,  
China

This document serves to inform those who may be interested, that we have received the confirmation of the request with order number 2020CN0335 and its corresponding test report with number 2020CN0334, to carry out the process of Module C2, according to Annex VI of Regulation (EU) 2016/425 of the European Parliament and of the Council., of the certificate with number 20/2565/01/0161.

We are waiting to receive the samples corresponding to the garment referenced as DISPOSABLE PROTECTION COVERALL SPFH001 to process the request.

At the end of the evaluation we will issue the documents from the Module C2 process.

Without other particular, sincerely



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Lucia Martínez Moltó  
Head of the Individual Protection Equipment Department



**SUPERVISED PRODUCT CHECKS**

**IN ACCORDANCE WITH MODULE C2, REGULATION 2016/425**

PPE TYPE : COVERALL  
REF: DISPOSABLE PROTECTION COVERALL SPFH001

**REPORT N° : 2020CN0335**

**AITEX, Notified Body No 0161 for the application of (UE) 2016/425 of the European Parliament and the Council, of 9th March 2016, in which the minimum requirements that Personal Protective Equipment (PPE) must comply with are set forth.**

**CERTIFIES**

In accordance with Report 2020CN0335 dated 16/06/2020

That the manufacture of PPE Type DISPOSABLE PROTECTION COVERALL SPFH001

Presented by company:

**FUJIAN SAFETECH PROTECTION CO., LTD**  
**No.6 road east, Tieling Industrial zone, Zone 1, Block 9, Jingxi town, Minhou**  
**Fuzhou, Fujian province**  
**China**

Is homogenous and in conformity with EU Type Examination Certificate 20/2565/01/0161  
Issued on 21/05/2020

Date of issue  
16/06/2020

Date of expiry  
16/06/2021

ALCOY, 16th of June 2020

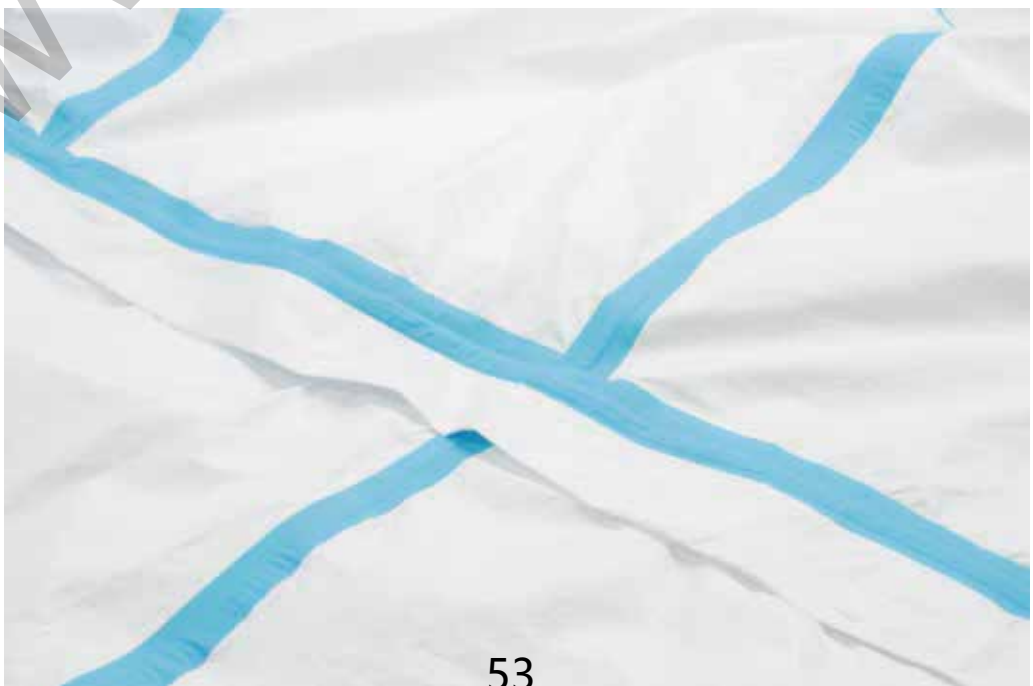
Digitally Signed by: Silvia Devesa  
Date: 16/06/2020 17:19:28  
Location: Alcoy

Silvia Devesa Valencia  
Laboratory Subdirector and Innovation

\* Date (dd/mm/yyyy)



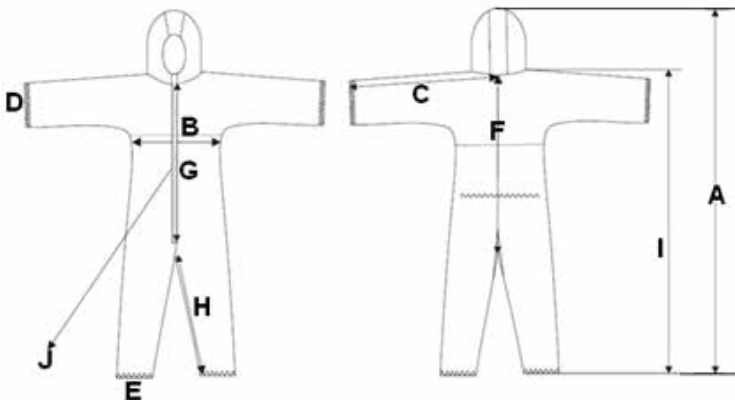








序号	部位/号码	S	M	L	XL	2XL	3XL	公差
A	身長 (含帽高)	185	190	195	200	205	210	±3
B	胸围 (全胸围)	112	120	130	138	146	156	±3
C	袖长	86	89	92	95	98	100	±2
F	后中衣长 (如图)	94.5	97.5	101	104	107.5	111	±1.5
H	内长	76	78	80	82	84	86	±1.5
I	总衣长 (如图)	160	165	170	175	180	185	±2
	帽高X帽宽	35X25	35X25	36X26	36X26	37X27	37X27	±1



6.8\*6.8CM桔色

- SIZE:
- XS
  - S
  - M
  - L
  - XL
  - 2XL
  - 3XL

6.5\*2.5cm  
号码贴纸



171021110579



中国认可  
国际互认  
检测  
TESTING  
CNAS L7901

# 检验检测报告

## TEST REPORT

STFWT20200982

产品名称

Product Name

医用一次性防护服

委托单位

Trust Unit

福建顺邦防护科技有限公司

生产单位

Manufacturer

福建顺邦防护科技有限公司

检验检测类别

Test Category

委托送样检验



江苏省特种安全防护产品质量监督检验中心  
JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS



# 检 验 检 测 报 告

## Test Report



防伪查询

共 3 页 第 1 页

Page 1 of 3

STFWT20200982

产品名称 Product Name	医用一次性防护服	规格型号 Specification Type	170
		商 标 Trademark	Safetech
委托单位 Trust Unit	福建顺邦防护科技有限公司	电 话 Tel	15280049090
生产单位 Manufacturer	福建顺邦防护科技有限公司	样品等级 Sample Grade	—
样品数量 Sample Quantity	5 件	送样日期 Sample Receiving Date	2020-02-16
检验检测类别 Test Category	委托送样检验	批号/货号 Serial Number	SPFH001
样品状态 Samples Conditions	符合检测要求		
检验检测及判定依据 Document and Decide Accordance	GB 19082-2009《医用一次性防护服技术要求》		
检验检测结论 Test Conclusion	样品经检验，所检项目符合 GB 19082-2009 标准规定的要求。 签发日期：2020-02-21 SignatuimDate		
备 注 Remarks	本报告检验结论仅对所检项目得出，不代表未经检验的项目或功能符合要求。 本报告仅对来样负责。		

批准：  
Approver

审核：  
Examiner

主 检：  
Major tester



## 检验检测结果 Testing Results

STFWT20200982

共 3 页 第 2 页  
Page 2 of 3

序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results	单项评价 Individual Judgment
1	外观	—	1.防护服应干燥、清洁、无霉斑，表面不允许有粘连、裂缝、孔洞等缺陷。 2.防护服连接部位可采用针缝、粘合或热合等加工方式。针缝的针眼应密封处理，针距每3cm应为8针~14针，线迹应均匀、平直，不得有跳针。粘合或热合等加工处理后的部位，应平整、密封，无气泡。 3.装有拉链的防护服拉链不能外露，拉头应能自锁。	防护服干燥、清洁、无霉斑，表面无粘连、裂缝、孔洞等缺陷。 防护服连接部位采用针缝和热合加工方式。针缝的针眼有密封处理，针距密度：8针/3cm。针迹均匀、平直、无跳针。热合加工处理后的部位平整、密封、无气泡。 拉链不外露，拉头能自锁。	合格
2	结构	—	1.防护服由连帽上衣、裤子组成，可分为连身式结构和分身式结构。 2.防护服的结构应合理，穿脱方便，结合部位严密。 3.袖口、脚踝口采用弹性收口，帽子面部收口及腰部采用弹性收口、拉绳收口或搭扣。	防护服为连身式结构。 防护服的结构合理，穿脱方便，结合部位严密。 袖口、脚踝口采用弹性收口，帽子、面部收口。	合格
3	表面抗湿性/级	—	沾水等级 ≥3	沾水等级 4-5, 4-5, 4-5	合格
4	断裂强力	N	防护服关键部位材料的断裂强力应不小于45N。	经向：120 纬向：61	合格
5	断裂伸长率/%	—	防护服关键部位材料的断裂伸长率应不小于15%。	经向：49.5 纬向：52.5	合格
6	过滤效率/% (流量 85L/min)	—	防护服关键部位材料及接缝处对非油性颗粒的过滤效率应不小于70%	面料： 1#100.0 2#100.0 3#100.0 接缝： 4#100.0 5#100.0 6#100.0	合格
7	透湿量	g/(m <sup>2</sup> ·d)	防护服材料透湿量应不小于2500g/(m <sup>2</sup> ·d)。	3.90×10 <sup>3</sup>	合格
8	抗渗水性	kPa	防护服关键部位静水压应不低于1.67kPa(17cmH <sub>2</sub> O)	>2.0	合格
9	抗合成血液穿透性/级 (液体阻隔功能)	—	≥2	6	合格

## 检 验 检 测 结 果 Testing Results

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results	单项评价 Individual Judgment		
10	微生物指标	细菌菌落总数	CFU/g	≤200	12	合格	
		大肠菌群	—	不得检出	未检出		
		致病性化脓菌	金黄色葡萄球菌	—	不得检出		未检出
			绿脓杆菌	—	不得检出		未检出
			溶血性链球菌	—	不得检出		未检出
		真菌菌落总数	CFU/g	≤100	4		

样 品 图 片

————— 以下空白 —————

# 注 意 事 项

- 1、检验检测报告无“检验检测报告专用章”或检验检测单位公章无效。
- 2、复制检验检测报告未重新加盖“检验检测报告专用章”或检验检测单位公章无效。
- 3、检验检测报告无主检、审核、批准人签字无效。
- 4、检验检测报告涂改无效。

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**Report No.:** 244253965a 001

**Client:** FUJIAN SAFETECH PROTECTION CO.,LTD

**Contact Information:** No. 6 Road East, Tieling Industrial Zone, Zone 1, Block 9, Jingxi Town, Minhou County, Fuzhou, Fujian Province, China  
Contact Person: Peter Xia

**Sample Description as Declared:**

No. Of Sample : One (16pcs)  
Material : 100% Polypropylene with polyethylene lamination 65gsm  
Colour : White  
Model No. : SPFH001  
Sample obtaining method : Sending by customer

**Applicant's Provided Care Instruction/Label:** -

**Sample Receiving date:** 2020-07-20

**Testing Period:** 2020-07-20 to 2020-07-30

For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.



2020-07-30 Wendy Sun / Technical Manager

Date Name/Position

*Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the above mentioned test sample. Without permission of the test center this report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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**Material List:**

<b>Material No.</b>	<b>Material</b>	<b>Color</b>	<b>Location</b>
M001	Whole Product	White with blue stripe	Disposable protection coverall

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**1. Liquid Barrier Performance and Classification of Protective Apparel and Drapes Intended for Use in Health Care Facilities (ANSI/ AAMI PB70-2012)**

**Section 4.2.1 Water Resistance: Impact Penetration Test**

Test method : AATCC TM 42-2017

M001

As Received	Weight of blotter gained (g)							
Specimen	1	2	3	4	5	6	7	8
Area A (Critical zone-front)	0	0	0	0	0	0	0	0
Area B (Critical zone-sleeve)	0	0	0	0	0	0	0	0
Area C (Critical zone-back)	0	0	0	0	0	0	0	0
Seam between areas A&B	0	0	0	0	0	0	0	0
Seam between areas A&C	0	0	0	0	0	0	0	0
Seam between areas B&C	0	0	0	0	0	0	0	0
Level	3	3	3	3	3	3	3	3
Remark: 1) Level 1: all critical zone components shall have a blotter weight gain of no more than 4.5 grams(g) 2) Level 2: all critical zone components shall have a blotter weight gain of no more than 1.0 grams(g) 3) Level 3: all critical zone components shall have a blotter weight gain of no more than 1.0 grams(g)								



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**Section 4.2.1 Water Resistance: Hydrostatic Pressure Test**

Test method : AATCC TM 127-2018  
 Tested side : Face  
 Water condition : 21 °C distilled water  
 Gradient : 60 mbar/min

M001

As Received	Water Column (cmH <sub>2</sub> O)							
Specimen	1	2	3	4	5	6	7	8
Area A (Critical zone-front)	>50	>50	>50	>50	>50	>50	>50	>50
Area B (Critical zone-sleeve)	>50	>50	>50	>50	>50	>50	>50	>50
Area C (Critical zone-back)	>50	>50	>50	>50	>50	>50	>50	>50
Seam between areas A&B	>50	>50	>50	>50	>50	>50	>50	>50
Seam between areas A&C	>50	>50	>50	>50	>50	>50	>50	>50
Seam between areas B&C	>50	>50	>50	>50	>50	>50	>50	>50
Level	3	3	3	3	3	3	3	3

Remark:

- 1) Level 2: all critical zone components shall have a hydrostatic resistance of at least 20 cmH<sub>2</sub>O
- 2) Level 3: all critical zone components shall have a hydrostatic resistance of at least 50 cmH<sub>2</sub>O

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**Barrier Performance of Each Specimen and Final Classification Commended**

Specimen	Level				Classification	Final Classification
	Impact Penetration Test AATCC 42	Hydrostatic Pressure Test AATCC 127	Resistance to Bacteriophage Phi-X174 ASTM F1671	Resistance to synthetic blood ASTM F1670		
1	3	3	/	N/A	Level 3	Level 3
2	3	3	/	N/A	Level 3	
3	3	3	/	N/A	Level 3	
4	3	3	/	N/A	Level 3	
5	3	3	/	N/A	Level 3	
6	3	3	/	N/A	Level 3	
7	3	3	/	N/A	Level 3	
8	3	3	/	N/A	Level 3	

**Remark:**

The barrier performance of all critical zone components, including seams and points of attachments shall be determined. The classification of isolation gown shall be a number denoting the performance of the critical zone component having the lower barrier performance.

Level	Test	Requirement
1	AATCC TM 42	≤ 4.5g
2	AATCC TM 42 AATCC TM 127	≤ 1.0g ≥ 20cmH <sub>2</sub> O
3	AATCC TM 42 AATCC TM 127	≤ 1.0g ≥ 50cmH <sub>2</sub> O
4	Drapes and Drape Accessories: ASTM F 1670 Surgical and the Protective Apparel: ASTM F 1671	Pass Pass

N/A= Not applicable.

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Sample Photos



Front



Back

- END -

## General Terms and Conditions of Business of TÜV Rheinland in Greater China

### 1. Scope

- 1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made between the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to Mainland China, Hong Kong and Taiwan. The client hereof includes:
- (i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use;
  - (ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.
- 1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
- 1.3 Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.
- 1.4 In the context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

### 2. Quotations

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

### 3. Coming into effect and duration of contracts

- 3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.
- 3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
- 3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a six-week notice prior to the end of the contractual term.

### 4. Scope of services

- 4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided.
- 4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
- 4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
- 4.4 On execution of the work there shall be no simultaneous assumption or any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organisations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.
- 4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety regulations or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.
- 4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.
- 4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying conditions in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.

### 5. Performance periods/dates

- 5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TÜV Rheinland in writing.
- 5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.
- 5.3 Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.
- 5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.
- 5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

### 6. The client's obligation to cooperate

- 6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
- 6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:
- a) it has required statutory qualifications;
  - b) the product, service or management system to be certified complies with applicable laws and regulations; and
  - c) it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
- If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to immediately terminate the contract/without prior notice; and i) withdraw the issued testing report/certificates if any.
- 6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

### 7. Prices

- 7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.
- 7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
- 7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,000.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

### 8. Payment terms

- 8.1 All invoice amounts shall be due for payment without deduction on receipt of the invoice. No discounts and rebates shall be granted.
- 8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.
- 8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
- 8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.
- 8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

- 8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.
- 8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.
- 8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the timely copy of the notice period.
- 8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.

### 9. Acceptance of work

- 9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.
- 9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.
- 9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.
- 9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.
- 9.5 If the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), TÜV Rheinland is entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.
- 9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

### 10. Confidentiality

- 10.1 For the purpose of these terms and conditions, "confidential information" means all information, documents, images, drawings, know-how, data, samples and project documentation which one party (the "disclosing party") hands over, transfers or otherwise discloses to the other party (the "receiving party") and the confidential information created during performance of work by TÜV Rheinland, including product testing data, defects, conformity to the technical standard and related reports. Confidential information also includes paper copies and electronic copies of such information. Confidential information expressly not the data and know-how collected, compiled or otherwise obtained by TÜV Rheinland (non-personal) within the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purpose of developing new services, improving services and analysing the provision of services.
- 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not take any confidentiality obligations hereunder towards such information.
- 10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of work by TÜV Rheinland:
- a) may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party;
  - b) may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, judicial court, accreditation bodies or third parties that are involved in the performance of the contract;
  - c) must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonable in the circumstances;
- 10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party undertakes to oblige these employees to observe the same level of secrecy as set forth in this confidentiality clause.
- 10.5 Information for which the receiving party can furnish proof that:
- a) it was generally known at the time of disclosure or has become general knowledge without violation of this confidentiality clause by the receiving party; or
  - b) it was disclosed to the receiving party by a third party entitled to disclose this information; or
  - c) the receiving party already possessed this information prior to disclosure by the disclosing party;
- 10.6 The receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute "confidential information" as defined in this confidentiality clause.
- 10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or (ii) on request by the disclosing party, to destroy all confidential information, including all copies, and confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared by the client for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.
- 10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

### 11. Copyrights and rights of use, publications

- 11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use (right of use).
- 11.2 The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
- 11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTCB is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.
- 11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.
- 11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2 needs the prior written approval of TÜV Rheinland in each individual case.
- 11.6 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense and, as far as possible, to withdraw publications.
- 11.7 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or certification mark of TÜV Rheinland.

### 12. Liability of TÜV Rheinland

- 12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual

orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated liability calculated according to the foregoing provisions exceeds 2.5 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.

- 12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, physical injury or illness.
- 12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.
- 12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract, unless such personnel made available is regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.
- 12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.
- 12.6 The limitation periods for claims for damages shall be based on statutory provisions.
- 12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

### 13. Export control

- 13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.
- 13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade regulations or embargos and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

### 14. Data protection notice

TÜV Rheinland processes personal data of the client for the purpose of fulfilling this contract. In addition, TÜV Rheinland also processes the data for other legal purposes in accordance with the relevant legal basis. The personal data of the client will only be disclosed to other natural or legal persons if the legal requirements are met. This also applies to transfers to third countries. The personal data will be deleted immediately as soon as a corresponding session (desktop) session. Data subjects may exercise the following rights: right of information, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at datenschutz@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

### 15. Test material; transport risk and storage

- 15.1 The risk and costs for freight and transport of documents or test material to and from TÜV Rheinland as well as the costs of necessary disposal measures shall be borne by the client.
- 15.2 Any destroyed and otherwise worthless test material will be disposed of by TÜV Rheinland at the expense of the client, unless otherwise agreed.
- 15.3 Undamaged test material shall be stored by TÜV Rheinland for four (4) weeks after completion of the test. If a longer storage period is desired, TÜV Rheinland charges an appropriate storage fee.
- 15.4 After the expiry of the 4 weeks or any longer period agreed upon, the test material will be disposed of by TÜV Rheinland for the client for a fee in accordance with clause 15.2.

### 16. Termination of the contract

- 16.1 Notwithstanding clause 3.3 of the GTCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term.
- 16.2 For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract which includes but not limited to the following:
- a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the company which are relevant for certification or signs of such changes;
  - b) the client misses the certificate or certification mark or uses it in violation of the contract;
  - c) in the event of several consecutive delays in payment (at least three times);
  - d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship.
- 16.3 In the event of termination with written notice by TÜV Rheinland for good cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term as lump-sum compensation. The client reserves the right to prove that there is no damage or a considerably lower damage. TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.
- 16.4 TÜV Rheinland is also entitled to terminate the contract with written notice if the client has not been able to make use of the time windows for auditing/ service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

### 17. Partial invalidity, written form, place of jurisdiction and dispute resolution

- 17.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.
- 17.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.
- 17.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:
- a) If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's Republic of China.
  - b) If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.
  - c) If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.
- 17.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.
- Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:
- a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.
  - b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association Taipei Branch to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.
  - c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.
- The decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.



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