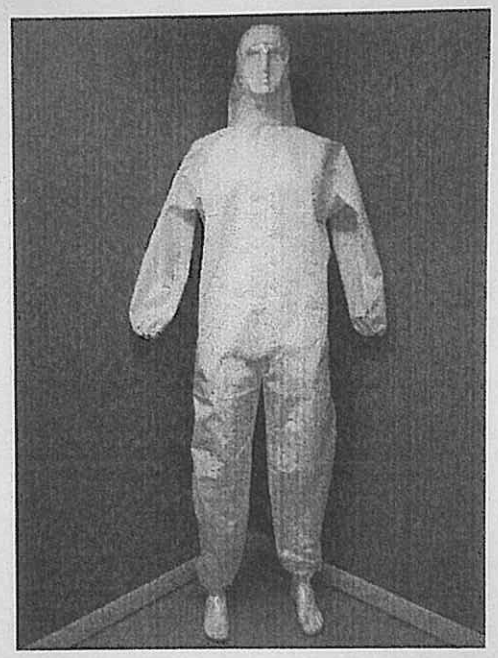
Xiantao TaiChen Protection Commodity Co., Ltd	Overall code TC0107	TECHNICAL DOCUMENTATION

Firm: **Xiantao TaiChen Protection Commodity Co., Ltd**
No. 1 Zhongling Park - Pengchang Town, 433018 Xiantao City – Hubei, China

Unit of manufacture: **Xiantao TaiChen Protection Commodity Co., Ltd**
No. 1 Zhongling Park - Pengchang Town, 433018 Xiantao City – Hubei, China

Basic type description: **cod. TC0107**
One-piece coverall, with hood, zipper at front opening covered by flap with adhesive taped, elastic cuffs, ankles and waist, serged seams.



Variations description:
Cod. **TC0101:** as the basic model with bound blue seams
Cod. **TC0103-SMS:** as the basic model with heat sealed seams (light blue, white, yellow, red, green, brown)

Category :
(according to 89/686/EEC)
III^

Use destination:
Suitable for:
- Protection against liquid chemicals, light spray (type 6) Protection against airborne solid particulates (type 5)
- Electrostatic charges

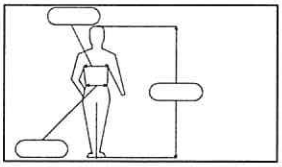
Standard :
EN 13034:2005+A1:2009
EN ISO 13982-1:2004+A1:2010
EN 1149-5:2008
EN ISO 13688:2013

Dirlo Li
21/04/2017

SIZES dimensions in centimetres

	S	M	L	XL	XXL	XXXL
Length	162	165	168	172	180	183
Chest	126	128	130	132	136	140
Waist	126	128	130	132	136	140

SIZE DESIGNATION (EN 13688) dimensions in centimetres



	S	M	L	XL	XXL	XXXL
Length	162-170	168-176	174-182	182-188	186-194	192-200
Chest	84-92	92-100	100-108	108-116	116-124	124-132

MATERIALS

Description	Article	Colour	Composition	Weight	Supplier
Fabric	Hood&Body	White	SMS 100% Polypropylene	50 g/m^2	**XianTao SanYang non-woven., Ltd**
Zip :	Chest	White	Teeth: Nylon; Slider: Zinc Alloys		Xiantao ReiDe Zip Co.,Ltd
Elastic:	Elastic waist, face opening, wrist and ankle	White	Latex strip with polyester		Cideron Rubber Enterprise Group Co. Ltd
Seams:	Serge sewn thread	White	Nylon		Xiantao Cameroom Trade Limited Company
Tape:	Over Serge sewn thread	light blue, white, yellow, red, green, brown	Non-Woven 100% Polypropylene		ZhongSan GaoXin Plastic Co.,ltd

Protective clothing shall not adversely affect the health or hygiene of the users. The material shall not, in the foreseeable conditions of normal use, release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful especially for materials in according to the Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
All materials are nickel free.
The DPI has been designed and manufactured with materials and components used by our company for a long time for which do not know the harmful effects for health and safety.

Performance of whole suit

Test	Requirement		Result /Class/Conformity
Resistance to liquid penetration Spray test type 6 (EN ISO 17491-4 met. A – EN 13034)			Pass
Resistance to aerosol penetration Inward leakage type 5 (EN ISO 13982-2 – EN ISO 13982)	$IL_{82/90}$ ≤ 30% $TILS_{8/10}$ ≤ 15%		Pass
Seams: strength (EN ISO 13935-2)	Class 6	> 500 N	Class 3
	Class 5	> 300 N	
	Class 4	> 125 N	
	Class 3	> 75 N	
	Class 2	> 50 N	
	Class 1	> 30 N	

Performance of fabric

Test	Requirement		Result/Class/Conformity	
Resistance to penetration to liquid (EN ISO 6530 – EN 13034)	Class 3: < 1% Class 2: < 5% Class 1: < 10%		H_2SO_4 30%:	class 3
			NaOH 10%:	class 3
			o-xilene:	class 2
			Butan-1-ol:	Class 1
Repellency to liquid (EN ISO 6530 – EN 13034)	class 3: > 95% class 2: > 90% class 1: > 80%		H_2SO_4 30%:	class 3
			NaOH 10%:	class 3
			o-xilene:	class 2
			Butan-1-ol:	class 2
Abrasion Resistance (EN 530 - method 2)	Class 6	> 2000 cycles	Class 2	
	Class 5	> 1500 cycles		
	Class 4	> 1000 cycles		
	Class 3	> 500 cycles		
	Class 2	> 100 cycles		
	Class 1	> 10 cycles		
Trapezoidal tear resistance (EN ISO 9073-4)	Class 6	> 150 N	Class 2	
	Class 5	> 100 N		
	Class 4	> 60 N		
	Class 3	> 40 N		
	Class 2	> 20 N		
	Class 1	> 10 N		
Tensile strength (EN ISO 13934-1)	Class 6	> 1000 N	Class 1	
	Class 5	> 500 N		
	Class 4	> 250 N		
	Class 3	> 100 N		
	Class 2	> 60 N		
	Class 1	> 30 N		
Puncture resistance (EN 863 - EN 13034)	Class 6	> 250 N	Class 1	
	Class 5	> 150 N		
	Class 4	> 100 N		
	Class 3	> 50 N		
	Class 2	> 10 N		
	Class 1	> 5 N		
Flex cracking resistance (EN 7854)	Class 6	> 100 000 c.	Class 6	
	Class 5	> 40 000 c.		
	Class 4	> 15 000 c.		
	Class 3	> 5 000 c.		
	Class 2	> 2 500 c.		
	Class 1	> 1 000 c.		
Charge decay (test condition EN 1149-3)	t50<4s		Pass	

EN ISO 13688:2013

Test	Requirement	Result /Class/Conformity
pH (EN 340 – ISO 3071)	3.5 > pH > 9.5	Pass
Amines (EN 340 – ISO 3071)		N/A
Colour fastness to perspiration (EN 340 – EN ISO 105-E04)	4	N/A

EXHAUSTIVE LIST OF ESSENTIAL REQUIREMENTS OF HEALTH AND SAFETY

(ANNEX II directive 89/686/EEC)

Clause of standard **EN ISO 13688:2013**	Clauses of EU Directive 89/686/EEC Annex II	
5.3	1.2.1	Absence of risks and other inherent nuisance factors
4.2	1.2.1.1	Suitable costituent materials
4.4	1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user
8	1.4	Information supplied by the manufacturer
6,7	2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

Clause of standard **EN 13034**	Clauses of EU Directive 89/686/EEC Annex II	
4.1	1.2.1	Absence of risks and other nuisance factor
4.1	1.2.1.1	Suitable costituent materials
4.1	1.3.2	Lightness and design strength
4.1	3.10.2	Protection against dangerous substance and infective agents
4.2.1	3.10.2	Protection against dangerous substance and infective agents
4.2.2	1.3.2	Lightness and design
5.1	1.2.1.3	Maximum permissible user impediment
5.1	2.4	PPE subject to ageing
5.1	3.10.2	Protection against dangerous substance and infective agents
5.2	1.1.1	Ergonomics
5.2	1.2.1.3	Maximum permissible user impediment
5.2	3.10.2	Protection against dangerous substance and infective agents
6	2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety
7	1.3.3	Compatibility of different classes of PPE designed for simultaneous use
7	2.4	PPE subject to ageing
7	2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

Clause of standard **EN ISO 13982-1**	Clauses of EU Directive 89/686/EEC Annex II	
4.1	1.2.1.1	Suitable costituent materials
4.1	1.3.2	Lightness and design strength
4.2	1.3.2	Lightness and design strength
4.2.1	3.10.2	Protection against dangerous substance and infective agents
4.3	1.3.1	Adaptation of PPE to user morphology
4.3	1.3.3	Compatibility of different classes of PPE designed for simultaneous use
4.3.1	1.1.2.1	Highest level of protection possible
4.3.1	1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user
4.3.2	1.1.1	Ergonomics
4.3.2	1.1.2.1	Highest level of protection possible
4.3.2	1.2.1.3	Maximum permissible user impediment
4.3.2	3.10.2	Protection against dangerous substance and infective agents
5, 6	1.4	Information supplied by the manufacturer
6	2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety
6	1.3.3	Compatibility of different classes of PPE designed for simultaneous use
5, 6	2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

Clause of standard **EN 1149-5**	Clauses of EU Directive 89/686/EEC Annex II	
6	1.4	information supplied by the manufacturer
5	2.12	PPE bearing one or more identification or recognition marks directly relating to health and safety
4.2	2.6	PPE for use in explosive atmospheres

CONTROL AND TESTS

Materials
Controls on the materials based on the specific procedures.
Controls of the weight of the fabric, thickness and colour.
The material conformity is guarantee by management system.

Components
Packaging, zip, elastic, label and tape are tested when received to check the conformity to the specific requirements.

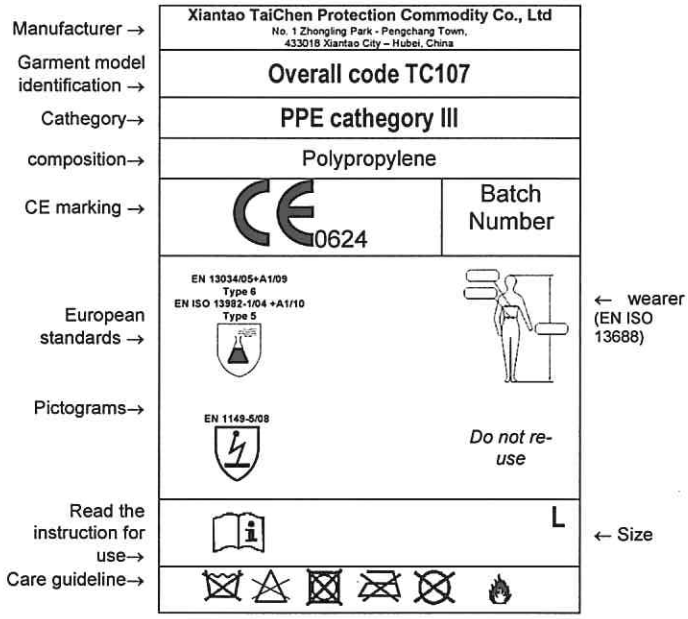
Cut Process
Before cutting the material, the department checks the table and the fabric for colour, stain or holes.

Sewing Process
Seams are made using specific procedures as required by the design department.

Packaging
Before packaging the Quality department checks the products for visual control of seams, zip and labels.
Only complying products are folded, packaged and put in the cartons.

LABEL (Example):

Marking and manufacturer's information are in the official language of the state of destination
Numbers are not smaller than 2 mm and pictograms are not smaller than 10 mm, they are black on white background.
The various components of CE marking must have the same vertical dimension, which may be not less than 5 mm.
The CE marking must be affixed to each piece of manufactured PPE so as to be visible, legible and indelible throughout the expected life of the PPE



Care guideline

Do not wash	Do not dry	Do not bleach	Do not iron	Do not dry clean	Flammable fabric