



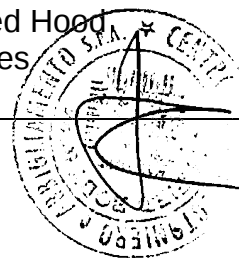
TECHNICAL DOCUMENTATION

N. 004

Chemical protective KIT

Coverall LSPC - Separated Hood

Boot Covers - Sleeves



Firm and Unit of manufacture

Rizhao Sanqi Medical & Health Articles Co., Ltd

Heshan Industrial Area, Rizhao City,
Shandong Province - China

:

Basic type description:

Chemical protective clothing set art LSPC

Disposable coverall with shirt collar, wrists, ankles and waist, self adhesive flap over the zip. With finger loop, manufactured with bonded seams.



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Models:

Hood with elastic on frontal opening



Boot cover with elastic at the upper part and stripes and sole made of anti-skid laminated fabric.



- Sleeve cover with elastic at both ends



Variant:

art LSPC/B

-Same as LSPC model but with plastic snap button on sleeves and legs

art LSPC/SS

-Same as LSPC model manufactured with serged seams.

art LSPC/SSB

-Same as LSPC model manufactured with serged seams and plastic snap button on sleeves and legs

art LCPC

-Same as LSPC model manufactured with Integrated hood.

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art LCPC/B

-Same as LCPC model but with plastic snap button on sleeves and legs

art LCPC/SS

-Same as LCPC model manufactured with serged seams.

art LCPC/SSB

-Same as LCPC model manufactured with serged seams and plastic snap button on sleeves and legs

Category:

III

PPE EU Regulation 2016/425

Standards:

EN ISO 13688:2022

Protective clothing – General requirements

EN 13034:2005+A1:2009

Protective clothing against liquid chemicals Type 6

EN ISO 13982-1:2004

Protective clothing to use against airborne solid particulates

+A1:2010

Type 5

EN 1149-5:2018

Protective clothing against electrostatic properties

EN 14126:2003+AC:2004

Protective clothing against infective agents Types, 4B, 5B, 6B

RISKS AGAINST THE PPE IT IS INTENDED TO PROTECT:

The design of protective clothing shall facilitate its correct positioning on the user, shall ensure that it remains in place for the foreseeable period of use and shall provide users with a level of comfort consistent with the level of protection required. The PPE furthermore, protects against:

EN 13034 Type 6 is intended to be used for exposure to a light spray, liquid aerosols or low pressure, low volume splashes, against which a complete liquid permeation barrier is not required i.e. when wearers are able to take timely adequate action when their clothing is contaminated. Type 6 protective clothing form the lowest level of chemical protection and are intended to protect from a potential exposure to small quantities of spray or accidental low volume splashes

EN ISO 13982-1 Type 5 is intended to be used for risks of exposure to chemical products resistant to the penetration of solid particles dispersed in the air for the entire trunk

EN 1149-5 is intended to be used for electrostatic dissipative protective clothing to protect against incendiary discharges.

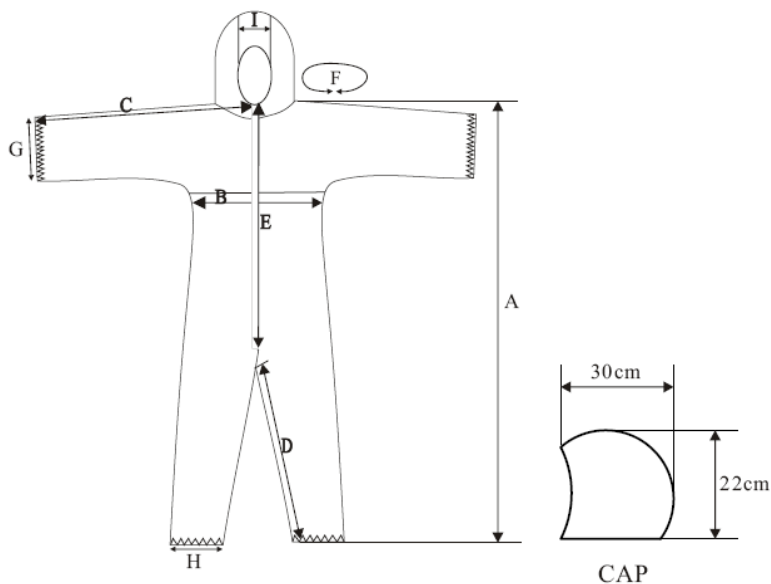
EN 14126 is intended to be used for protection against exposure to infective agents



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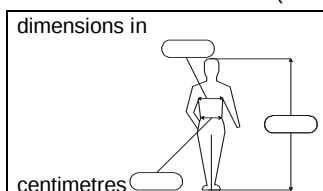
SIZES

dimensions in centimetres (unit: cm):



SIZE	A	B	C	D	E	F	G	H	I
S	165	56	84	78	63	53	9	12	9
M	170	60	87.5	78	70	53	9	12	9
L	173	64	89.5	79	73	53	9	12	9
XL	180	69	91	80	78	53	9	12	9
XXL	183	73	93	80	80	53	9	12	9
XXXL	190	78	96	84	85	53	9	12	9
Tolerance	±2.0	±1.5	±2.0	±2.0	±2.0	±2.0	±2.0	±2.0	±1.0

SIZE DESIGNATION (EN 13688)



	S	M	L	XL	XXL	XXXL
height	155-160	161-165	166-170	171-175	176-180	181-190
chest	89-95	96-105	105-115	116-125	126-135	135-150
waist	54-58	58-62	62-66	67-71	71-75	76-80



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MATERIALS

Fabric:	Material: 100%Polypropylene, 60 g/m ² Supplier: Jiang Su Lanjin Tech. Development Co., LTD.
Zip :	Supplier: Changle Huaxiang weaving factory
Yarn of Seams:	Supplier: Rizhao Fanggang Sewing Equipment 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 PPE 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.

CONTROL AND TESTS

A description of the control and test facilities to be used in the manufacturer's plant to check compliance of production PPE with the harmonized standards and to maintain quality level

1. Incoming quality control: all the fabrics and raw materials are inspected during incoming according to raw material specification harmonized with PPE regulation. Inspection items including physical performance, dimension, appearance etc. Sampling inspection are following AQL 1.5/2.5/4.0 per MIL-STD-105E standard. Only the raw materials pass the incoming inspection can be released to next manufacturing process. Quality records are kept for the inspection.
2. In-process quality control: semi-finished products are inspected in each process before the products are released to next process with random sampling. Random sampling will cover each workers/sewing machine during in-process quality control. Inspection items including physical performance, dimension, appearance etc. Quality records are kept for the inspection.
3. Finish good quality control: finish good products are inspected according to product specification harmonized with PPE regulation before releasing to warehouse for delivery. Inspection items including physical performance, dimension, appearance etc. Sampling inspection are following AQL 1.5/2.5/4.0 per MIL-STD-105E standard. Quality records are kept for the inspection.
4. Quality personnel are full time inspectors who are well trained and qualified before carrying out any quality inspection.
5. The products will be tested to PPE standards in a regular basis in notify body for physical characteristic, dimension etc.

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DISCARDING:

If not contaminated the product can be treated as a common textile waist. If contaminated it should be treated as harmful garbage and discarded according to country laws

PERFORMANCE – LEVELS AND CLASSES

<i>Test material</i>	<i>Result</i>	<i>Class</i>
Resistance to penetration		
<i>H₂SO₄ 30%</i>	0%	3
<i>NaOH 10%</i>	0%	3
<i>o-xylene</i>	0%	3
<i>Butan 1 ol</i>	0%	3
Repellency to Liquid		
<i>H₂SO₄ 30%</i>	97.8%	3
<i>NaOH 10%</i>	98.2%	3
<i>o-xylene</i>	94.9%	2
<i>Butan 1 ol</i>	97,3%	3
Resistance to permeation (EN ISO 6529)		
<i>H₂SO₄ 30%</i>	35 min	2
Abrasion Resistance (EN 530 method 2)	1000 cycles	4
Trapezoidal tear resistance (EN ISO 9073-4)	Long 54.1 N Trasv 26.8 N	2
Tensile strength (EN ISO 13934-1)	Long 76 N Trasv 38 N	1
Puncture resistance (EN 863)	9.38	1
Flex cracking resistance (EN ISO 7854 method B)	100'000 cycles	6
Electric surface resistance	$t_{50} < 4 \text{ s}$	pass

<i>Test coveralls</i>	<i>Result</i>	<i>Class</i>
Spray test (type 4) EN ISO 17491-4 – met. B		Pass
Aerosol penetration (type 5)	$L_{jmn \ 82/90} \leq 30\%$ $L_{s,8/10} \leq 15\%$	Pass
Seams tensile strenght (EN ISO 13935-2) -	Serged seams: 94 Bonded seams: 90	3

<i>Test</i>	<i>Result</i>	<i>Class</i>
pH	9.2	pass



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Test			Result	Class
Resistance to penetration by contaminated liquids under hydrostatic pressure (ISO 16604)	Class	Test pressure	kPa 20	PASS classe 6
	6	20 kPa		
	5	14 kPa		
	4	7 kPa		
	3	3,5 kPa		
	2	1,75 kPa		
	1	0 kPa		
Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids. (ISO 22610)	Class	Breakthrough	t >75	PASS classe 6
	6	$t > 75$		
	5	$60 < t \leq 75$		
	4	$45 < t \leq 60$		
	3	$30 < t \leq 45$		
	2	$15 < t \leq 30$		
	1	$\leq 10 \text{ min}$		
Resistance to penetration by contaminated liquid aerosols (ISO 22611)	Class	Penetration ratio	log > 5	PASS classe 3
	3	$\log > 5$		
	2	$3 < \log \leq 5$		
	1	$1 < \log \leq 3$		
Resistance to penetration by contaminated solid particles (ISO 22612)	Class	Penetration	Log ufc ≤ 1	PASS classe 3
	3	≤ 1		
	2	$1 < \log \text{ ufc} \leq 2$		
	1	$2 < \log \text{ ufc} \leq 3$		

Test reports number:

- 22RA13709 test on garment (requirement)
- 22RA13753 Test on garment and seams (Spray test and seams tensile strength test).
- 22RA13755 Test on garment (aerosol test)
- 22RA13756 Test on seams (tensile strength test)
- 22RA13760 test on fabric
- 22RA13764 Test on fabric (Biological test)
- 22RA14593 Test on fabric (antistatic test)
- 19RA18129 test on finger loop.

Issue by

Centro Tessile Cotoniero e Abbigliamento spa
Piazza S. Anna 2, 21052 Busto Arsizio – VARESE - ITALY



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EXHAUSTIVE LIST OF ESSENTIAL REQUIREMENTS OF HEALTH AND SAFETY
(Annex II of Regulation (UE) 2016/425)

Clauses of Regulation (UE) 2016/425 Annex II		Clause of standard EN ISO 13688:2022
1.2.1	Absence of inherent risks and other nuisance factors	5.3
1.2.1.1	Suitable constituent materials	4.2
1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	4.4
1.4	Manufacturer's instructions and information	8
2.12	PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	6, 7

Clauses of Regulation (UE) 2016/425 Annex II		Clause of standard EN 13034
1.1.1	Ergonomics	5.2
1.2.1	Absence of inherent risks and other nuisance factors	4.1
1.2.1.1	Suitable constituent materials	4.1
1.2.1.3	Maximum permissible user impediment	5.1, 5.2
1.3.2	Lightness and strength	4.1, 4.2.2
1.3.3	Compatibility of different types of PPE intended for simultaneous use	7
1.4	Manufacturer's instructions and information	7
2.4	PPE subject to ageing	5.1, 7
2.12	PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	6, 7
3.10.2	Protection against cutaneous and ocular contact	4.1, 4.2.1, 5.1, 5.2

Clauses of Regulation (UE) 2016/425 Annex II		Clause of standard EN ISO 13982-1
1.1.1	Ergonomics	4.3.2
1.1.2.1	Optimum level of protection	4.3.1, 4.3.2
1.2.1.1	Suitable constituent materials	4.1
1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	4.3.1
1.2.1.3	Maximum permissible user impediment	4.3.2
1.3.1	Adaptation of PPE to user morphology	4.3
1.3.2	Lightness and strength	4.1, 4.2
1.3.3	Compatibility of different types of PPE intended for simultaneous use	4.3, 6
1.4	Manufacturer's instructions and information	5, 6
2.12	PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	5, 6
3.10.2	Protection against cutaneous and ocular contact	4.2.1, 4.3.2

Clauses of Regulation (UE) 2016/425 Annex II		Clause of standard EN 1149-5
2.6	PPE for use in potentially explosive atmosphere	4.2
2.12	PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	5
1.4	Manufacturer's instructions and information	6

Clauses of Regulation (UE) 2016/425 Annex II		Clause of standard EN 14126
1.1.2.2	Classes of protection appropriate to different levels of risk	4.1.4
1.3.1	Adaptation of PPE to user morphology	4.3
1.3.2	Lightness and strength	4.1.2, 4.2
1.4	Manufacturer's instructions and information	6
2.12	PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	5
3.10.2	Protection against cutaneous and ocular contact	4.3, 4.1.4



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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.

Marking must be durable to the appropriate number of clearing processes

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

	 Heshan Industrial Area, Rizhao City, Shandong Province, China www.sanqicn.com Chemical protective clothing set LSPC Batch Number CE 0624 PPE III Category	manufacturer Garment model identification
Year of production		
CE marking		
	 EN 13034:2005 + A1:2009 TYPE 6 EN ISO 13982-1:2004 + A1:2010 TYPE 5 EN 14126:2003+AC:2004 EN 1149-5:2018 EN ISO 13688:2022 - S Do not re-use - Keep away from fire 	European standards wearer (EN ISO 13688) size Care guideline
European standard		
instruction for use should be referred to		

