



TECHNICAL DOCUMENTATION
N. 002 rev 03
GWPC/BWPC

Firm and Unit of manufacture

Rizhao Sanqi Medical & Health Articles Co., Ltd

NO. 137 Rizhao North Road, High-tech zone, Rizhao City,
Shandong Province, China

:

Basic type description:

Coverall GWPC

Disposable coverall with elasticated hood, wrists, ankles and waist, self adhesive flap over the zip. Heat sealed seams with tapes.





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Variations description:

Models:

BWPC

Same as GWPC but with blue tapes



GWPC-BC
BWPC-BC

Possibility to make the coverall with boot cover:

Green tape and boot cover

Blue tape and boot cover

Category:

III

PPE EU Regulation 2016/425

Standards:

EN ISO

13688:2013+A1:2021

EN 13034:2005+A1:2009

EN ISO 13982-1:2004

+A1:2010

EN 14605:2005+A1:2009

EN 14126:2003+AC:2004

EN 1073-2:2002

EN 1149-5:2018

Protective clothing – General requirements

Protective clothing against liquid chemicals Type 6

Protective clothing to use against airborne solid particulates
Type 5

Protective clothing against liquids – spray-tight (Type 4) and
liquid-tight (Type 3)

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

Protective clothing against radioactive contamination

Protective clothing - electrostatic properties

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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 14605 Type 4 is intended to be used for risks of spray-tight of chemical substances, during activities where a full liquid permeation barrier is necessary.

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

EN14325:2004 Protective clothing against chemicals-test methods and performance classification of chemical protective clothing materials, seams, joins and assemblages.

UNI EN 1073-2:2003 • is intended to be used for protection against risks of exposure to particulate radioactive contamination

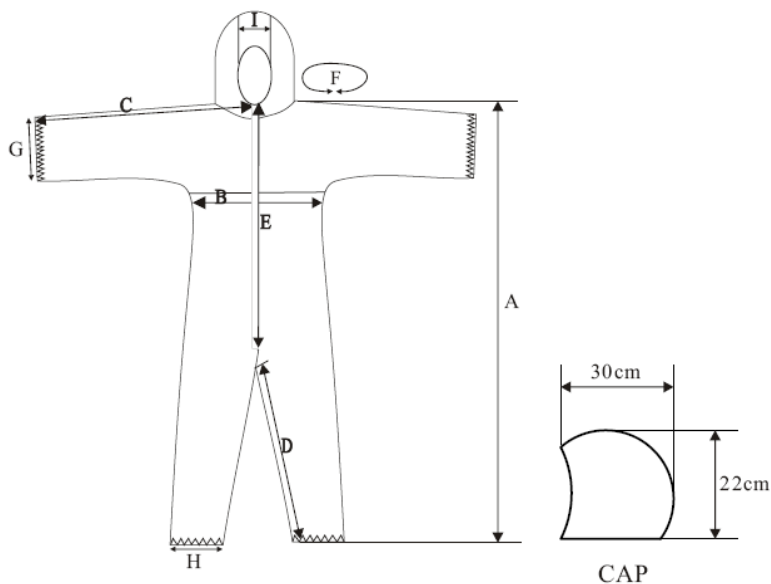
UNI EN 1149-5:2018 • is intended to be used for electrostatic dissipative protective clothing to protect against incendiary discharges.



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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
XXXXL	195	82	99	86	90	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)

dimensions in



centimetres

	S	M	L	XL	XXL	XXXL	XXXXL
height	155-160	161-165	166-170	171-175	176-180	181-190	191-200
chest	89-95	96-105	105-115	116-125	126-135	135-150	155-160
waist	75-85	85-95	95-105	105-110	110-120	120-130	130-140



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MATERIALS

Fabric:	Material: Polypropylene +polyethylene, 60 g/m ² Supplier: Jiang Su Lanjin Tech. Development Co., LTD.
Zip :	nylon
Elastic:	h 2.5 cm
Yarn of Seams:	Polyester
Tape of Seams:	Polyester

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.



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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.

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

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PERFORMANCE – LEVELS AND CLASSES

Test material	Result	Class
Resistance to penetration		
H ₂ SO ₄ 30%	0%	3
NaOH 10%	0%	3
o-xylene	0%	3
Butan 1 ol	0%	3
Repellency to Liquid		
H ₂ SO ₄ 30%	99%	3
NaOH 10%	99%	3
o-xylene	96%	3
Butan 1 ol	96%	3
Resistance to permeation (EN ISO 6529)		
NaOH 10%	>480 min	6
H₂SO₄ 96%%	13 min	1
Abrasion Resistance (EN 530 method 2)	<500 cycles	2
Trapezoidal tear resistance (EN ISO 9073-4)	Long 68 N Trasv 32 N	2
Tensile strength (EN ISO 13934-1)	Long 113 N Trasv 52 N	1
Puncture resistance (EN 863)	10N	2
Flex cracking resistance (EN ISO 7854 method B)	100'000 cycles	Class 6
Charge decay test condition EN 1149-3 meth 2	half time ddecay t₅₀ <4 s or	pass
Blocking resistance (EN 25978 - EN 1073-2)		pass pass
Ignition and flammability (EN 13274-4 - EN 1073-2)	Do not keep burning	Pass

Test coveralls	Result	Class
Spray test (type 4) EN ISO 17491-4 – met. B	No stain	Pass
Aerosol penetration (type 5)	L _{jmn} 82/90 ≤30% L _{s,8/10} ≤15%	Pass
Resistance to permeation (EN ISO 6529)		
NaOH 10%	>480 min	6
H₂SO₄ 96%%	13 min	1
Seams tensile strenght (EN ISO 13935-2) -	92N	3



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Test	Result	Class
pH	9.4	pass

Test	Result	Class
Resistance to penetration by contaminated liquids under hydrostatic pressure (ISO 16604)	kPa 20	PASS classe 6
Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids. (ISO 22610)	t >75	PASS classe 6
Resistance to penetration by contaminated liquid aerosols (ISO 22611)	log > 5	PASS classe 3
Resistance to penetration by contaminated solid particles (ISO 22612)	Log ufc ≤ 1	PASS classe 3

Test reports number:

24RA13817, 24RA13820, 24RA13825, 24RA13838, 24RA13840, 24RA13843, 25RA00151, 25RA00152

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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
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 14605
1.1.1	Ergonomics	4.3.4.1
1.2.1	Absence of inherent risks and other nuisance factors	4.3.1
1.2.1.1	Suitable constituent materials	4.1
1.2.1.3	Maximum permissible user impediment	4.3.1, 4.3.4.1
1.3.2	Lightness and strength	4.1, 4.2
1.3.3	Compatibility of different types of PPE intended for simultaneous use	4.3.4.1, 6
1.4	Manufacturer's instructions and information	6
2.3	PPE for the face, eyes and respiratory system	4.4
2.4	PPE subject to ageing	4.3.2, 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	4.1, 4.2, 4.3.4.2, 4.3.4.3

Clauses of Regulation (UE) 2016/425 Annex II		Clause of standard EN 1073-2
1.1.1	Ergonomics	4
1.1.2.1	Optimum level of protection	4
1.1.2.2	Classes of protection appropriate to different levels of risk	4.2, 4.3, 4.4

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1.2.1	Absence of inherent risks and other nuisance factors	4
1.3.1	Adaptation of PPE to user morphology	4.1.1, 4.1.2
1.3.2	Lightness and strength	4.1.2, 4.4
1.3.3	Compatibility of different types of PPE intended for simultaneous use	4.1.4, 4.1.2
1.4	Manufacturer's instructions and information	7
2.2	PPE enclosing the parts of the body to be protected	4.1.2
2.4	PPE subject to ageing	6.7
3.9.2.1	Protection against external radioactive contamination	4, 6, 7

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

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	4, 1.6



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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

Year of production	 Heshan Industrial Area, Rizhao City, Shandong Province, China www.sanqicn.com	manufacturer
	Coverall GWPC Year 2024 Batch Number	Garment model identification
CE marking	 0624 PPE III Category	
European standard	 EN 13034:2005 + A1:2009 TYPE 6B EN ISO 13982-1:2004 + A1:2010 TYPE 5B EN 14605:2005 + A1:2009 TYPE 4B EN 14126:2003+AC:2004 EN 1149-5/18 EN 1073-2/02 Class x EN ISO 13688:2013+A1:2021 u S	European standards
instruction for use should be referred to	 Do not re-use - Keep away from fire	wearer (EN ISO 13688) size
	 Do not re-use - Keep away from fire	Care guideline