

**Firm and Unit of
manufacture:**

ZVG Zellstoff-Vertriebs GmbH & Co.KG
Urbacher Strasse 4+5. D-53842 Troisdorf

Basic type description:**Secutex Pro 5/6**

One-piece coverall made of non-woven Microporous 65 g/m², colour white, with 3-piece hood, zip front opening covered by a flap self-adhesive, elastic at cuffs, ankles, hood and waist, serged seams.



Finger loop and knitted cuffs available

All items (original and variations) could be made with different position of seams; between shoulders and arms instead of on the front and back side of torso.

Use destination:

USE Clothing to be worn to protect against light spray, liquid aerosol or low pressure/low volume splashes, airborne solid particulates.

Suitable for:

- Protection against particular-tight (type 5)
- Protection against chemical splash (type 6)
- Radioactive particle contamination
- Infective agents

Standard :

EN 13034:2005+A1:2009
EN ISO 13982-1:2004+A1:2010
EN ISO 13688:2013
EN 1073-2:2002
EN 1149-5:2008
EN 14126:2003

**Category :
(according to Regulation EU
2016/425)**

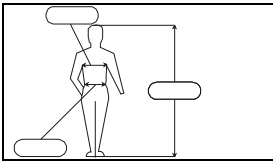
III

Risk Analysis:

The PPE has been designed to facilitate its use, to ensure that it remains in place during the user's activities and provides a level of comfort appropriate to the level of protection. The DPI also protects:

- Type 6 is intended to be used in cases where risk has been assessed as low and a full liquid permeation barrier is not necessary, 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
- Type 5 offer protection against risks of exposure to chemical products resistant to the penetration of solid particles dispersed in the air for the entire trunk
- Garment that offer protection against the risks of exposure to radioactive contamination in the form of particles
- Garment with antistatic performance offer protection against electrostatic charges that can trigger fires

SIZE DESIGNATION (EN ISO 13688:2013) dimensions in centimeters.



	S	M	L	XL	XXL	XXXL
height	164-170	170-176	176-182	182-188	188-194	194-200
chest	84-92	92-100	100-108	108-116	116-124	124-132

MATERIALS

Fabric:	Microporous non woven (UPC Ltd, Korea) (polypropylene laminated with microporous polyethylene) 35g PP +5g glue +25g PE Weight: 65 g/m ² Colour: white- blue –orange-green
Zip :	Nylon n.3 – 75 cm single cursor
Elastic:	1/8x0.35 rubber
Seams:	Polyester
Adhesive tape:	20 mm x 75 mm

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.

The certificates or test reports of the materials described above are attached to this documentation.

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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 ISO 9001 certification

Components

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

PERFORMANCE – LEVELS AND CLASSES

<i>Test on garment</i>	<i>Result</i>	<i>Class</i>
Spray test (EN ISO 17491-4 met.B)	No stains on the witness coveralls	pass
Inward leakage test (EN ISO 13982-2)	$L_{jmn} 82/90 \leq 30\%$ $L_s 8/10 \leq 15\%$ N.p.f. 10.9	pass Class 1 (EN 1073-2)
Tensile strength on seams (EN ISO 13935-2) (lowest value)	89 N	3/6
Resistance to permeation on seams (EN ISO 6530) <i>H₂SO₄ 30% and NaOH 40%</i>	>480 min.	6/6
<i>Test on material</i>	<i>Result</i>	<i>Class</i>
Resistance to penetration (EN 368 – EN ISO 6530)		
<i>H₂SO₄ 30%</i>	0.0%	3/3
<i>NaOH 10%</i>	0.0%	3/3
<i>o-xylene</i>	0.0%	3/3
<i>Butan 1 ol</i>	0.0%	3/3
Repellency to Liquid (EN 368 – EN ISO 6530)		
<i>H₂SO₄ 30%</i>	95.0%	3/3
<i>NaOH 10%</i>	95.1%	3/3
<i>o-xylene</i>	91.9%	2/3
<i>Butan 1 ol</i>	94.2%	2/3
Resistance to permeation	NaOH 40% > 480 min H ₂ SO ₄ 30% > 480 min	6/6
Abrasion Resistance (EN 530 met2)	500 cycles	3/6
Trapezoidal tear resistance (EN ISO 9073-4)	45.3 N <i>weft</i> – 26.5 N <i>warp</i>	2/6
Tensile strength (EN ISO 13934-1)	100 N <i>weft</i> - 55 N <i>warp</i>	1/6
Puncture resistance (EN 863)	14.4 N	2/6
Flex cracking resistance (EN ISO 7854 method B)	No damage after 100.000 cycles	6/6

Resistance to penetration by blood-borne pathogens - phi-x174 bacteriophage test - ISO 16603/16604	20 kPa	Class 6/6
Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids - ISO 22610 (test microorganism: staphylococcus aureus)	> 75 min	Class 6/6
Resistance to penetration by contaminated liquid aerosols - ISO DIS 22611 (test microorganism: staphylococcus aureus)	Log > 5	Class 3/3
Resistance to penetration by contaminated solid particles - EN ISO 22612 (test microorganism: spores of Bacillus subtilis)	Log CFU ≤ 1	Class 3/3
Surface resistivity (EN 1149-1)	2.49 x 10 ⁹ Ω	pass
pH value	7,0 FABRIC 7.3 (Finger loop) 6.1 (knitted)	pass

EXHAUSTIVE LIST OF ESSENTIAL REQUIREMENTS OF HEALTH AND SAFETY
(ANNEX II Regulation EU 2016_425)

Clause of standard EN ISO 13688	ANNEX II Regulation EU 2016_425	
5.3	1.2.1	Absence of risks and other inherent nuisance factors
4.2	1.2.1.1	Suitable constituent 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	ANNEX II Regulation EU 2016_425	
4.1	1.2.1	Absence of risks and other nuisance factor
4.1	1.2.1.1	Suitable constituent 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	ANNEX II Regulation EU 2016_425	
4.1	1.2.1.1	Suitable constituent 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 1073-2	ANNEX II Regulation EU 2016_425	
4	1.1.1	Ergonomics
4	1.1.2.1	Highest level of protection possible
4.2, 4.3, 4.4	1.1.2.2	Classes of protection
4	1.2.1	Absence of risks and other nuisance factors
4.1.1, 4.1.2	1.3.1	Adoption of PPE to users morphology
4.1.2, 4.4	1.3.2	Lightness and design strength
4.1.4, 4.1.2	1.3.3	Compatibility of different classes of PPE designed for simultaneous use
7	1.4	Information supplied by the manufacturer
4.1.2	2.2	PPE enclosing the parts of the body to be protected
6,7	2.4	PPE subject to ageing
6	2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety
4,6,7	3.9.2.1	Protection against external radioactive contamination

Clause of standard EN 1149-5	ANNEX II Regulation EU 2016_425	
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

Clause of standard EN 14126	ANNEX II Regulation EU 2016_425	
4.1.4	1.1.2.2	Classes of protection
4.3	1.3.1	Adoption of PPE to users morphology
4.1.2, 4.2	1.3.2	Lightness and design strength
6	1.4	information supplied by the manufacturer
5	2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety
4.3, 4.1.4	3.10.2	Protection against dangerous substance and infective agents

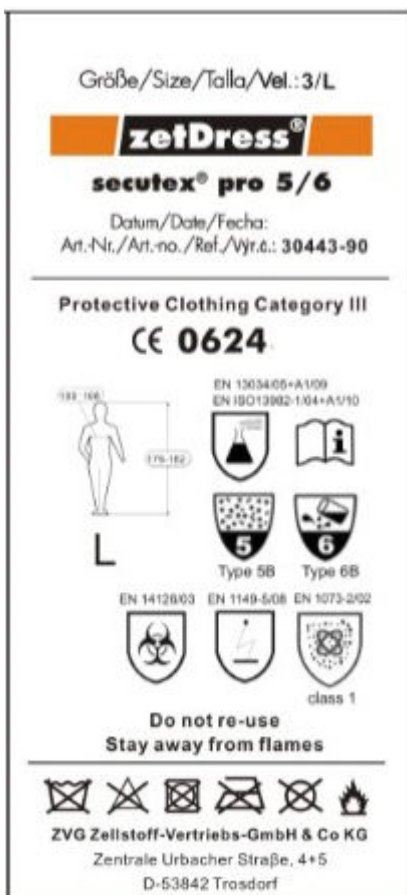
LABEL

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



Dimension:

CE mark: ≥ 5 mm
Pictograms: ≥ 10 mm
Letters: ≥ 2 mm

Care guideline

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

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