

INSTRUCTIONS AND INFORMATION FOR USE
CHEMICAL PROTECTIVE COVERALL – PURA 1.8PLUS

READ CAREFULLY: The existing legislation confer to the employer (user) the responsibility for the identification and for the choice of the adequate PPE on the basis of the risk type correlating to the workplace environment (characteristics of PPE and relative category). It is therefore, appropriate to verify the suitability of the item characteristics with the user needs prior to use. Moreover, the employer must preliminarily inform the worker about the risk types from which he is protected using the PPE, ensuring, if necessary, an education and/or a training, concerning the correct and practical usage of the PPE. The Company declines every responsibility for eventual damages or consequences, due to an improper use, or in case of changes on PPE different from PPE object of certificate. In case that the indications of instructions and information shall not be respected, the PPE shall loss the technical and juridical validity.

Article: PURA 1.8PLUS Description: One-piece coverall with hood, zipper at the front opening covered by flap, elastic cuffs, ankles and hood; cut and sewn seams Fabric: MP 100% polypropylene + polyethylene film, 63 g/m ² , white colour/ SMS 100% polypropylene 55 g/m ² , blue colour	Category III Size: S-3XL
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The conformity to type assessment, is done by Centro Tessile Cotoniero & Abbigliamento S.p.A. (Centrocot), Piazza Sant'Anna 2, 21052 Busto Arsizio VA notified body n. 0624, according to Regulation (EU) 2016/425 for Personal Protective Equipment – module C2.

USE: garments object of this instructions and information are in compliance with European standards and they are suitable for the below mentioned usage; they are not suitable for all non-mentioned usage. (in particular concerning all kind of risks related to third category according to Regulation (EU) 2016/425)

EU declaration of conformity may be accessed at the following address: <https://magazin.renania.ro/>

CE MARKING MEANING: guarantees the free circulation of products and goods within the European Economic Community. CE-Marked product complies with the essential requirements of the European Regulation (EU) 2016/425

Pictograms:

EN 13034:2005+A1:2009 – Protection against liquid chemical, light spray, liquid aerosol or low pressure, low volume splashes (type 6)		
EN ISO 13982-1:2004+A1:2010 - Protection against airborne solid particulates (type 5)		
EN 1073-2:2002 - Particulate radioactive contamination (no rays)		Class 1
EN 1149-5:2018 - Electrostatic charges		
EN 14126:2003+AC:2004 - Infective agents (Type 5B, 6B) Only on white MP fabric		
EN ISO 13688:2013+A1:2021 - Protective clothing - general requirements		

Manufacturer: RENANIA
540240 TARGU MURES, ROMANIA

Style: PURA 1.8PLUS
Category: EIP Categoria III

CE marking: CE 0624
EN ISO 13882-1:2004+A1:2010
EN 13034:2005+A1:2009

Size: 3XL

Body measurement: 124-132, 164-170, 170-176, 176-182, 182-188, 188-194, 194-200

Read instruction for use:

Care guideline:

Code/Lot no.: 69B5 / PO, MM/YYYY

---European standards
---Pictograms
---Do not reuse
---Flammable material
---Date of production

Size	S	M	L	XL	2XL	3XL
Height	164-170	170-176	176-182	182-188	188-194	194-200
Chest-waist	84-92	92-100	100-108	108-116	116-124	124-132

MAINTENANCE AND CLEANING:

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

LIMITATIONS: exposition to certain chemicals or high concentrations may require higher barrier properties, either in terms of the performances of material or in the construction of the suit. Such areas can be protected by garments in type 1 to type 4. The user shall be the sole judge of the suitability for the type of protection required and the corrected combinations of coveralls and additional equipment.

LIFETIME: it is suggested to use the product within a period of five years from the date of production written on label month and year of production: MM/YYYY.

WAY OF DRESSING:

- Make sure that the size corresponds with the user. Do not make any modifications on product.
- Check that the product has no defect and is in good condition (no holes, unsewed parts, etc.)
- Open the zip, dress up taking care not to break the material. Close the zip and sealed the flap. Make the adhesive stripe attaches to the coverall without folding. In case of airborne solid particulates it is advisable to cover and tape the zipper and to wrap the cuffs and ankles with adhesive tape.
- The protection characteristics are valid only if the item is correctly dressed and closed
- Protect uncovered parts of body (hands, respiratory areas, foot) with protective gloves, boots, eventual mask etc. attached to the coverall (if necessary adding adhesive stripe) and offered the same level of protection in order to provide for full body protection

WARNINGS:



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- Choose products compatible with area of work
- The disposable item must be replaced after every use
- If any breaking, punctures etc. occur, leave the working area and wear new coverall.
- The prolonged wearing of chemicals protective suits may cause heat stress. Heat stress and discomfort can be reduced or eliminated by using appropriate undergarments or suitable ventilation equipment
- The person wearing the electrostatic dissipative protective clothing shall be properly earthed. The resistance between the person skin and earth shall be less than $10^8 \Omega$ e.g. by wearing adequate footwear on dissipative or conductive floors;
- Electrostatic dissipative protective clothing shall not be open or removed whilst in presence of flammable or explosive atmospheres or while handling flammable or explosive substances;
- electrostatic dissipative protective clothing is intended to be worn in Zones 1, 2, 20, 21 and 22 (see EN 60079-10-1 [7] and EN 60079-10-2 [8]) in which the minimum ignition energy of any explosive atmosphere is not less than 0,016 mJ;
- electrostatic dissipative protective clothing shall not be used in oxygen enriched atmospheres, or in Zone 0 (see EN 60079-10-1 [7]) without prior approval of the responsible safety engineer;
- the electrostatic dissipative performance of the electrostatic dissipative protective clothing can be affected by wear and tear, laundering and possible contamination;
- electrostatic dissipative protective clothing shall be worn in such a way that it permanently covers all non-complying materials during normal use (including bending movements)
- This coverall meets the requirement $L_{jmn}, 82/90 \leq 30\%$ $L_s 8/10 \leq 15\%$
- The method provides a measure of the inward leakage into protective clothing by dry aerosol particles (generated from a sodium chloride solution) having a mass-median aerodynamic diameter of $0,6 \mu m$
- These garments are flammable - Keep away from fire
- Abandon the place of work immediately in case of damage of the product
- The user shall not take off the garment when he is still in the risk area

TRANSPORT, CONSERVATION AND DISCARDING: The item should be transported and conserved in a dry place away from sources of light and heat. 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.

PERFORMANCES

Test on whole suits	Result	classes
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)	$L_{jmn} 82/90 \leq 30\%$ $L_s 8/10 \leq 15\%$	PASS
Nominal protection factor (EN ISO 13982-2 – EN 1073-2)	TILE % TILA % Fpn	Class 1
Practical performance tests (EN 1073-2)		Pass
Seams: strength (EN ISO 13935-2)	75-125 N	Class 3
Test on fabric	Result	Classification
Resistance to penetration to liquid (EN ISO 6530 – EN 13034)	H2SO4 30% < 1% NaOH 10% < 1% o-xilene < 1% Butan-1-ol < 1%	Class 3 Class 3 Class 3 Class 3
Repellency to liquid (EN ISO 6530 – EN 13034)	H2SO4 30% > 95% NaOH 10% > 95% o-xilene 90-95% Butan-1-ol 90-95%	Class 3 Class 3 Class 2 Class 2
Abrasion Resistance (EN 530 - method 2)	$10 < c < 100$ SMS $500 < c < 1000$ MP	Class 1 SMS Class 3 MP
Trapezoidal tear resistance (EN ISO 9073-4 EN 1073-2)	$20 < N < 40$	Class 3 MP Class 3 SMS
Tensile strength (EN ISO 13934-1)	$30 < N < 60$ MP $60 < N < 100$ SMS	Class 1 MP Class 2 SMS
Puncture resistance (EN 863 - EN 1073-2)	$10 < N < 50$	Class 2
Flex cracking resistance (EN 7854)	$> 100\ 000$ c. MP > 5000 c. < 15000 SMS	Class 6 MP Class 3 SMS
Blocking resistance (EN 25978 - EN 1073-2)		Pass
Ignition and flammability (EN 13274-4 - EN 1073-2)		Pass
Electric surface resistance	$\leq 2,5 \times 10^9$	Pass
Resistance to penetration by blood-borne pathogens - phi-x174 bacteriophage test – ISO 16603/16604	20 kPa	Class 6



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Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids - ISO 22610 (test microorganism: staphylococcus aureus)	t > 75	Class 6
Resistance to penetration by contaminated liquid aerosols - ISO DIS 22611 (test microorganism: staphylococcus aureus)	log > 5	Class 3
Resistance to penetration by contaminated solid particles - EN ISO 22612 (test microorganism: spores of Bacillus subtilis)	log ufc ≤ 1	Class 3
pH (EN ISO 13688 – ISO 3071)	3.5 > pH > 9.5	Pass

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