



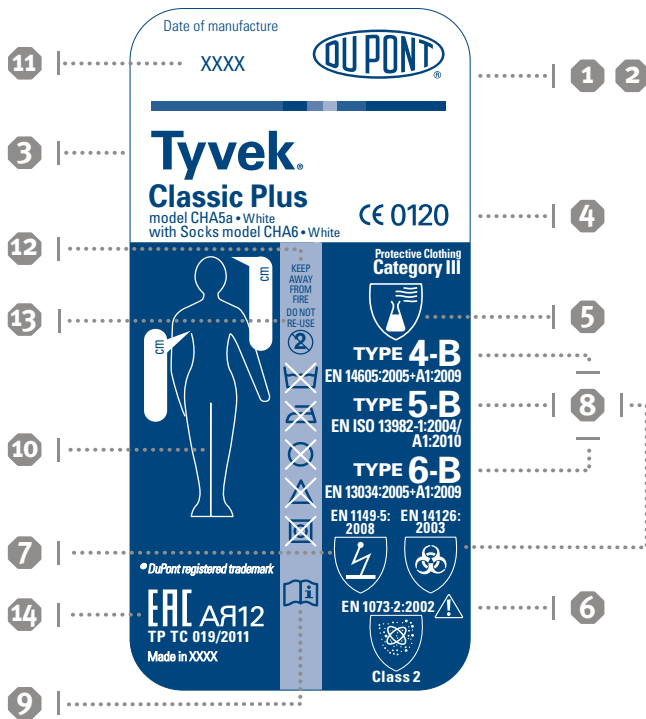
Tyvek®

SCIENCE THAT PROTECTS

Classic Plus

MODEL CHA5a • WHITE
WITH SOCKS MODEL CHA6 • WHITE

Cat. III PROTECTION LEVEL



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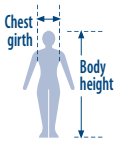
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DuPont Personal Protection
L-2984 Luxembourg

Tyvek® Classic Plus S-3XL June 2013 / 24 / V1

BODY MEASUREMENTS IN CM



Size	Chest girth	Body height	Size	Chest girth	Body height	Size	Chest girth	Body height
S	84-92	162-170	L	100-108	174-182	2XL	116-124	186-194
M	92-100	168-176	XL	108-116	180-188	3XL	124-132	192-200

ENGLISH

INSTRUCTIONS FOR USE

INSIDE LABEL MARKINGS

1. Trademark. 2. Coverall manufacturer. 3. Model identification – Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6 are the model names for hooded protective coveralls with overtaped seams and cuff, ankle, facial and waist elastification. Tyvek® Classic Plus with Socks model CHA6 has additionally integrated socks. 4. CE marking - Coveralls comply with requirements for category III personal protective equipment according to European legislation. Type-test and quality assurance certificates were issued in 2012 by SGS United Kingdom Ltd., Weston-super-Mare, BS22 6WA, UK, identified by the EC Notified Body number 0120. 5. Indicates compliance with European standards for chemical protective clothing. 6. Protection against particulate radioactive contamination according to EN 1073-2:2002. 7. EN 1073-2 clause 4.2. requires resistance to ignition. However resistance to ignition was not tested on Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6. 8. Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6 are antistatically treated and offer electrostatic protection according to EN 1149-1:2006 including EN 1149-5:2008 when properly grounded. 9. Full-body protection "types" achieved by Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6 defined by the European standards for Chemical Protective Clothing: EN 14605:2005+A1:2009 (Type 4), EN ISO 13982-1:2004/A1:2010 (Type 5) and EN 13034:2005+A1:2009 (Type 6). Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6 also fulfill the requirements of EN 14126:2003 Type 4-B, 5-B and 6-B. 10. Wearer should read these instructions for use. 11. Sizing pictogram indicates body measurements (cm) & correlation to letter code. Check your body measurements and select the correct size. 12. Date of manufacture. 13. Flammable material. Keep away from fire. 14. Do not re-use. 15. Eurasian Conformity (EAC) - Complies with Technical Regulations of the Customs Union TR TS 019/2011. Certified by "VNIIS", Russian Research Institute for Certification.

THE FIVE CARE PICTOGRAMS INDICATE:

Do not wash. Laundering impacts upon protective performance (e.g. antistat will be washed off).	Do not iron.	Do not machine dry.	Do not dry clean.	Do not bleach.

Performance of white Tyvek®, Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6:

FABRIC PHYSICAL PROPERTIES	TEST METHOD	RESULT	EN CLASS*
Abrasion resistance	EN 530 (method 2)	> 100 cycles	2/6
Flex cracking resistance	ISO 7854/8	> 100 000 cycles	6/6
Trapezoidal tear resistance	EN ISO 9073-4	> 10 N	1/6
Tensile strength	EN ISO 13934-1	> 60 N	2/6
Puncture resistance	EN 863	> 10 N	2/6
Surface resistance at RH 25%**	EN 1149-1:2006 EN 1149-5:2008	inside and outside ≤ 2.5x10 ¹⁰ Ohm	N/A

N/A = Not applicable. * According to EN 14325:2004 ** See limitations of use

FABRIC RESISTANCE TO PENETRATION BY LIQUIDS (EN ISO 6530)

Chemical	Penetration index - EN Class*	Repellency index - EN Class*
Sulphuric acid (30%)	3/3	3/3
Sodium hydroxide (10%)	3/3	3/3

* According to EN 14325:2004

FABRIC AND TAPED SEAMS RESISTANCE TO PERMEATION BY LIQUIDS (EN ISO 6529 METHOD A, BREAKTHROUGH TIME AT 1µg/(cm².min))

Chemical	Breakthrough time [min]	EN Class*
Sulphuric acid (18%)	> 480	6/6
Sulphuric acid (30%)	> 240	5/6
Sodium hydroxide (40%)	> 480	6/6

* According to EN 14325:2004

FABRIC RESISTANCE TO PENETRATION OF INFECTIVE AGENTS

Test method	Test method	EN Class*
Resistance to penetration by blood and body fluids using synthetic blood	ISO 16603	3/6
Resistance to penetration by blood-borne pathogens using Phi-X174 bacteriophage	ISO 16604 Procedure D	no classification
Resistance to penetration by contaminated liquids	EN ISO 22610	1/6
Resistance to penetration by biologically contaminated aerosols	ISO/DIS 22611	1/3
Resistance to penetration by contaminated solid particles	ISO 22612	1/3

* According to EN 14126:2003

WHOLE SUIT TEST PERFORMANCE

Test method	Test result	EN Class
Type 4: High level spray test (EN ISO 17491-4:2008, method B)	Pass	N/A
Type 5: Particle aerosol inward leakage test (EN 13982-2)	Pass*** L ₅₀ 82/90 ≤ 30%** L ₈ 7/10 ≤ 15%**	N/A
Protection factor according to EN 1073-2:2002	> 50	2/3***
Type 6: Low level spray test (EN ISO 17491-4:2008, method A)	Pass	N/A
Seam strength (EN ISO 13935-2)	> 75N	3/6*

* According to EN 14325:2004. ** 82/90 means 91, 1% L₅₀ values ≤ 30% and 8/10 means 80% L₅₀ values ≤ 15%.

*** Test performed with taped cuffs, hood and ankles.

For further information about the barrier performance, please contact your Tyvek® supplier or the DuPont Techline: www.dpp-europe.com/technicalsupport

TYPICAL AREAS OF USE: Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6 are designed to protect workers from hazardous substances, or sensitive products and processes from contamination by people. They are typically used, depending on chemical toxicity and exposure conditions, for protection against particles (Type 5), limited liquid splashes or sprays (Type 6) or intensive liquid sprays as defined in the Type 4 high level spray test.

LIMITATIONS OF USE: Exposure to certain very fine particles, intensive liquid sprays and splashes of hazardous substances may require coveralls of higher mechanical strength and barrier properties than those offered by the Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6. The user must ensure suitable reagent to garment compatibility before use. In addition, the user shall verify the fabric and chemical permeation data for the substance(s) of use. The hood is designed to fulfill Type 4 requirements without exterior taping to the full-face mask (for compatibility advice please contact DuPont or your supplier). To achieve the claimed protection in certain applications, taping of cuffs, ankles and hood will be necessary. The user shall verify that tight taping is possible in case the application would require doing so. Care shall be taken when applying the tape, that no creases appear in the fabric or tape since those could act as channels. When taping the hood, small pieces (+/- 10 cm) of tape should be used and overlap. Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6 can be used with or without thumb holders. The thumb holders of Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6 should only be used with a double glove system, where the wearer puts the thumb holder over the under glove and the second glove should be worn over the garment sleeves. For maximum protection, taping of the outer glove to the sleeve must be used. Tyvek® Classic Plus with Socks model CHA6 has integrated socks that must be worn inside the appropriate safety footwear. The user shall ensure proper grounding of both the garment and the wearer. The resistance between the user and the earth shall be less than 10¹⁰ Ohm, e.g. by using adequate footwear/flooring, or use of a grounding cable. 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 shall not be used in oxygen enriched atmospheres without prior approval of the responsible safety engineer. The electrostatic dissipative performance of the electrostatic dissipative clothing can be affected by relative humidity, wear and tear, possible contamination and ageing. Electrostatic dissipative protective clothing shall permanently cover all non-complying materials during normal use (including bending and movements). Further information on grounding can be provided by DuPont. Please ensure that you have chosen the Tyvek® garment suitable for your job. For advice, please contact your Tyvek® supplier or DuPont. The user shall perform a risk analysis upon which he shall base his choice of PPE. He shall be the sole judge for the correct combination of full body protective coverall and ancillary equipment (gloves, boots, respiratory protective equipment etc.) and for how long a Tyvek® coverall can be worn on a specific job with respect to its protective performance, wear comfort or heat stress. DuPont shall not accept any responsibility whatsoever for improper use of Tyvek® coveralls.

PREPARING FOR USE: In the unlikely event of defects, do not wear the coverall.

STORAGE: Tyvek® Classic Plus model CHA5A and Tyvek® Classic Plus with Socks model CHA6 coveralls may be stored between 15 and 25°C in the dark (cardboard box) with no UV light exposure. DuPont has performed natural and accelerated ageing tests with the conclusion that Tyvek® fabric retains adequate physical strength and barrier properties over 10 years. The antistatic properties may reduce over time. The user must ensure the dissipative performance is sufficient for the application.

DISPOSAL: Tyvek® coveralls can be incinerated or buried in a controlled landfill without harming the environment. Disposal of contaminated garments is regulated by national or local laws.

The content of this instruction sheet was last verified by the notified body SGS in June 2013.