3M 4510

CE 0120

TYPE 6
EN 13034:2005 +A1:2009

TYPE 5
EN ISO 13982-1:2004 +A1:2010

NUCLEAR PARTICLE
EN 1073-2:2002
TIL Class 1

ANTISTATIC
EN 1149-1:2006
EN 1149-5:2008

TYPE 5-B, 6-B
EN 14126:2003

S

164-170cm / 64-67in.

84-92cm / 33-36in.

TP TC 019/2011

MM/YYYY

Figure 1./Figure 1./Abbildung 1./Figura 1./Figura 1/Afbeelding 1./Figur 1./ Figur 1. /Figur 1./Kuva 1./Figura 1./Εικόνα 1./Rys. 1./Obr. 1./Číslo 1. / Obrázok 1/Slika 1./1 איור./Joonis 1./1. attēls/1 pav./Figura1./Рис. 1./ Малюнок 1./Slika 1./Фигура 1./Слика 1./Şekil 1./Сурет1./Figure 1.

GB IE ZA AU NZ AE

These products meet the requirements of the following Protective Clothing standards:
EN 13034:2005 + A1:2009 (Type 6);
EN ISO 13982-1:2004 + A1:2010 (Type 5);
EN ISO 13688:2013;
EN 1073-2:2002 (Class 1); ⚠ except EN 863 puncture resistance
EN 14126:2003 (Types 5-B, 6-B); ⚠ except ISO 16604
EN 1149-5:2008 (tested to EN 1149-1:2006)

They should be used to help protect the wearer against solid airborne particulates and certain limited liquid splashes only.

WARNINGS AND LIMITATIONS

⚠ **Particular attention should be given to warning statements where indicated.**

⚠ Warning

- Always be sure that the complete product is:
  - Suitable for the application;
  - Fitted correctly;
  - Worn during all periods of exposure;
  - Replaced when necessary.
- **Proper selection, training, use and appropriate maintenance are essential in order for the product to help protect the wearer.**
- **Failure to follow all instructions on the use of these personal protection products and/or failure to properly wear the complete product during all periods of exposure may adversely affect the wearer's health, lead to severe or life threatening illness or permanent disability.**
- For suitability and proper use follow local regulations and refer to all information supplied. For more information contact a safety professional or 3M on 0870 60 800 60 (UK) or 1800 320 500 (Ireland).
- Before use, the wearer must be trained in use of the complete product in accordance with applicable Health and Safety standards/guidance.
- Never alter, modify or repair this device.
- Check product is undamaged before use.
- These products do not contain components made from natural rubber latex.

⚠ **Do not use around heat, flames, or sparks.**

- Do not use in oxygen enriched atmospheres without prior approval of the safety engineer.
- The garment may not be suitable for protection against chemicals not listed in the Technical Specification.
- Does not protect against radiation.
- This product does not eliminate the risk of contracting any disease or infection.
- Before initial use, always check that the product is within the stated shelf life (use by date).

Garment should be fully fastened and cover underclothes.
For full protection: tape along length of storm flap; tape cuffs, ankles and hood to suitable, additional personal protective equipment.*
Regular rest periods and use of absorbent undergarments may reduce any heat stress caused by prolonged wearing.
For the anti-static properties to be effective the garment must be used with anti-static accessories and work practices. The user should be properly earthed, via skin contact or other means of earthing,so that the resistance is less than 10⁸Ω. Electrostatic dissipative protective clothing shall permanently cover all non-complying materials during normal use (including bending and movements). 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

MARKING AND SIZING

See Figure 1.
A - Limited protective performance against liquid chemicals (Type 6);
Protective performance against solid airborne particulates (Type 5)
B - Electrostatic properties – Surface resistivity (both sides);
Protective performance against radioactive particulate contamination (Class 1);
Protective performance against infective agents;

C - Size	H - No chlorination
D - Height	I - Do not iron
E - Chest	J - Do not dry clean
F - Single use	K - Do not tumble dry
G - Do not wash	L - Flammable

STORAGE AND TRANSPORTATION

Store in accordance with manufacturer's instructions, see packaging.

End of Shelf Life	Date of Manufacture
Temperature Range	Name and address of Manufacturer
Maximum Relative Humidity	Packaging not suitable for food contact.

Contaminated products should be removed with care and disposed of as hazardous waste in accordance with applicable regulations.
When transporting this product use original packaging.

TECHNICAL SPECIFICATION

Tests are performed under laboratory conditions that may not reflect the reality of use and do not account for factors such as excessive heat and mechanical wear.*
Whole suit tests conducted on coveralls worn with gloves, boots and full face mask with taping at wrists, ankles, hood/mask interface, down length and across bottom of storm-flap.*
Collared coveralls tested with 3M 446 hood.
* Contact 3M for additional information.

PERFORMANCE DATA

Figure 2. TEST	STANDARD	Minimum Result (Class) *
Total inward leakage (whole suit test)	EN ISO 13982:2004	$L_{jmn,82/90}$ ≤30%. $L_{S,8/10}$ ≤15%
Reduced spray test (whole suit)	EN ISO 17491-4:2008	Pass
Abrasion resistance (visual assessment)	EN 530:1994	1
Flex cracking (visual assessment)	ISO 7854:1995	5
Tear resistance	EN ISO 9073-4:1997	1
Tensile strength	EN ISO 13934-1:1999	1
Puncture resistance	EN 863:1995	1
Resistance to blocking	EN 25978:1990	No blocking
Resistance to ignition	EN 13274-4:2001	Pass
Seam Strength	EN ISO 13935-2:1999	1
Repellency to liquids - 30% H_2SO_4	EN ISO 6530:2005	3
Liquid penetration resistance - 30% H_2SO_4	EN ISO 6530:2005	3
Repellency to liquids - 10% NaOH	EN ISO 6530:2005	3
Liquid penetration resistance - 10% NaOH	EN ISO 6530:2005	3

TEST	STANDARD	CLASS as per EN 14126
Synthetic blood penetration resistance	ISO 16603:2004	4
Blood-borne pathogen penetration resistance	ISO 16604:2004	Fail
Contaminated solid particle penetration resistance	ISO 22612:2005	3
Contaminated liquid aerosol penetration resistance	ISO/DIS 22611:2003	3
Wet bacteria penetration resistance	ISO 22610:2006	6

APPROVALS

These products meet the requirements of the European Community Directive 89/686/EEC (Personal Protective Equipment Directive) and are thus CE marked.
Certification under Article 10, EC Type-Examination, has been issued for these products by BTTG Testing & Certification Ltd., Unit 14 Wheel Forge Way, Trafford Park, Manchester, M17 1EH, UK (Notified Body number 0338).
Certification under Article 11, EC quality control, has been issued by SGS United Kingdom Ltd. (Notified Body number 0120).

(The same instructions follow in French, German, Italian, Spanish, Dutch, Swedish, Danish, Norwegian, Finnish, Portuguese, Greek, Polish, Hungarian, Czech, Slovak, Slovenian, Estonian, Latvian, Lithuanian, Romanian, Russian, Ukrainian, Hebrew, Croatian, Serbian, Bulgarian, Turkish and Kazakh.)

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GB IE ZA AU NZ AE — 3M™ Limited Use Protective Clothing
FR CH BE — Vêtements à usage limité 3M™
DE CH AT — 3M™Einwegschutzanzug
IT CH — 3M™ Indumento di protezione monuso
ES — 3M™ Trajes de Protección de Uso Limitado
NL BE — 3M™ Beperkt gebruik beschermende kleding
SE — 3M™ korttidskläder
DK — 3M™ Beskyttelsesdragter
NO — 3M™ Vernedress
FI — 3M™ Suojavaate
PT — 3M™Vetimenta de Proteção Química
GR — 3M™ Φόρμα Προστασίας Περιορισμένης Χρήσης
PL — 3M™Odzież ochronna ograniczonego stosowania
HU — 3M™ védőruha
CZ — 3M™Jednorázové ochranné oděvy
SK — Ochranný odev 3M™
SI — 3M™Zaščitna oblačila za omejeno uporabo
IL — בגד מגן 3M™
EE — 3M™Piiratud kasutusega kaitseriietus
LV — 3M™Aizsargtērps
LT — 3M™ Riboto naudojimo laiko apsauginiai drabužiai
RO — Echipament de protectie a corpului cu utilizare limitata 3M™
RU BY AZ — Одежда специальная защитная 3M™
UA — 3M™Захисний одяг обмеженого використання
HR — 3M™Limitirana upotreba zaštitne krpice
BG — 3M™ Защитни облекла за еднократна употреба
RS — 3M™Zaštitna odeća sa ograničenom primenom
TR — 3M™Sınırlı Kullanımlı Koruyucu Tulum
KZ — 3M™Қорғаныс киімнің шектеулі қолданысы

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