



NSAI
Standards

Irish Standard
I.S. EN 943-2:2019

Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols - Part 2: Performance requirements for Type 1 (gas-tight) chemical protective suits for emergency teams (ET)

I.S. EN 943-2:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 943-2:2019 is the adopted Irish version of the European Document EN 943-2:2019, Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols - Part 2: Performance requirements for Type 1 (gas-tight) chemical protective suits for emergency teams (ET)

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 943-2

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Supersedes EN 943-2:2002

English Version

Protective clothing against dangerous solid, liquid and
gaseous chemicals, including liquid and solid aerosols -
Part 2: Performance requirements for Type 1 (gas-tight)
chemical protective suits for emergency teams (ET)

Vêtements de protection contre les produits chimiques
dangereux solides, liquides et gazeux, y compris les
aérosols liquides et les particules solides - Partie 2:
Exigences de performance des combinaisons des
protections chimiques étanches aux gaz (Type 1)
destinés aux équipes de secours (ET)

Schutzkleidung gegen gefährliche feste, flüssige und
gasförmige Chemikalien, einschließlich
Flüssigkeitsaerosole und feste Partikel - Teil 2:
Leistungsanforderungen für Typ 1 (gasdichte)
Chemikalienschutzkleidung für Notfallteams (ET)

This European Standard was approved by CEN on 17 September 2018.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 943-2:2019) has been prepared by Technical Committee CEN/TC 162 “Protective clothing including hand and arm protection and lifejackets”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 943-2:2002.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Regulation(s).

For relationship with EU Regulation(s), see informative Annex ZA, which is an integral part of this document.

Annex B includes significant technical changes between this document and the previous edition of this European Standard.

EN 943, *Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols* consists of the following parts:

- Part 1: Performance requirements for Type 1 (gas-tight) chemical protective suits
- Part 2: Performance requirements for Type 1 (gas-tight) chemical protective suits for emergency teams (ET)

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 943-2:2019 (E)**1 Scope**

This document specifies the minimum requirements, test methods, marking and information supplied by the manufacturer, for ventilated and non-ventilated gas-tight chemical protective suits for use by emergency teams (ET).

It specifies full body personal protective ensembles to be worn for protection against solid, liquid and gaseous chemicals, including liquid and solid aerosols. Chemicals such as violently air sensitive reagents, unstable explosives and cryogenic liquids have not been considered since protection against these additional hazards is beyond the scope of this standard.

This document does not establish minimum criteria for protection against non-chemical hazards, e.g. radiological, fire, heat and explosive hazards and infective agents. This type of equipment is not intended for total immersion in liquids.

The seams, joins and assemblages attaching the accessories are included within the scope of this standard. The performance criteria for the accessories, gloves, boots or respiratory protective equipment are given in other standards.

Particulate protection is limited to physical penetration of the particulates only.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 132, *Respiratory protective devices — Definitions of terms and pictograms*

EN 651:2011, *Resilient floor coverings — Polyvinyl chloride floor coverings with foam layer — Specification*

EN 943-1:2015+A1:2019, *Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols — Part 1: Performance requirements for Type 1 (gas-tight) chemical protective suits*

EN 1817:2010, *Resilient floor coverings — Specification for homogeneous and heterogeneous smooth rubber floor coverings*

EN 13274-4:2001, *Respiratory protective devices — Methods of test — Part 4: Flame tests*

EN 14325:2018, *Protective clothing against chemicals — Test methods and performance classification of chemical protective clothing materials, seams, joins and assemblages*

EN 14594:2018, *Respiratory protective devices — Continuous flow compressed air line breathing devices — Requirements, testing and marking*

EN 15090:2012, *Footwear for firefighters*

CEN ISO/TR 11610, *Protective clothing — Vocabulary (ISO/TR 11610)*

EN ISO 26986:2012, *Resilient floor coverings — Expanded (cushioned) poly(vinyl chloride) floor covering - Specification (ISO 26986:2010)*

ISO 17491-1:2012, *Protective clothing — Test methods for clothing providing protection against chemicals — Part 1: Determination of resistance to outward leakage of gases (internal pressure test)*

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