

KAITSERIIETUS. RÕIVAD KAITSEKS JAHEDATE
KESKKONDADE EEST

Protective clothing - Garments for protection against
cool environments

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

| | |
|---|--|
| See Eesti standard EVS-EN 14058:2017+A1:2023 sisaldab Euroopa standardi EN 14058:2017+A1:2023 ingliskeelset teksti. | This Estonian standard EVS-EN 14058:2017+A1:2023 consists of the English text of the European standard EN 14058:2017+A1:2023. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. |
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EUROPEAN STANDARD

EN 14058:2017+A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2023

ICS 13.340.10

Supersedes EN 14058:2017

English Version

Protective clothing - Garments for protection against cool environments

Habillement de protection - Vêtements de protection
contre les environnements frais

Schutzkleidung - Kleidungsstücke zum Schutz gegen
kühle Umgebungen

This European Standard was approved by CEN on 4 September 2017 and includes Amendment 1 approved by CEN on 20 June 2022.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 14058:2017+A1:2023) 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of an identical text or by endorsement, at the latest by November 2023, and conflicting national standards shall be withdrawn at the latest by November 2023.

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 A1 EN 14058:2017 A1.

Regarding the most significant changes that have been made in this new edition, see Annex A.

This document includes Amendment 1 approved by CEN on 20 June 2022.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

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 Directive(s) / Regulation(s).

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

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

In many cases single garments are placed on the market to protect against local body cooling (for ensembles see EN 342). These garments can be e.g. waistcoats, jackets, coats or trousers and/or separable thermal linings. They can provide a certain degree of protection to cool environment for a certain length of time, depending e.g. on the personal constitution and activity, the accompanying clothing and the environmental features (wind speed, temperature, humidity). In critical situations (e.g. combination of cold, moisture and wind, long exposure duration, no help nearby) it is important to assess the cold protection properties of the garment (see Annex C), especially if the user cannot safely identify the risk at moderate low temperatures above -5 °C in an appropriate time.

At moderate low temperatures above -5 °C garments against local body cooling are not only used for outdoor activities e.g. in construction industry but can be used for indoor activities e.g. in food processing industry. In these cases garments often do not need to be made of watertight or air impermeable materials. Therefore, in this European Standard, these requirements are applicable if the manufacturer claims in his instructions for use protection for hazards covered by these properties.

The resultant effective thermal insulation value I_{cler} can be used to assess temperature ranges according to Tables C.1 and C.2.

If exposure to wet conditions is expected, EN 343 applies.

1 Scope

This European Standard specifies requirements and test methods for the performance of garments for protection against the effects of cool environments above $-5\text{ }^{\circ}\text{C}$ (see Annex C). These effects comprise not only low air temperatures, but also humidity and air velocity.

Cold protective ensembles are excluded from this standard.

The protective effects and requirements of footwear, gloves and separate head wear are excluded from the scope of this standard.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 342:2017, *Protective clothing — Ensembles and garments for protection against cold*

A1 EN ISO 811:2018, *Textiles — Determination of resistance to water penetration — Hydrostatic pressure test (ISO 811:2018)* **A1**

EN ISO 4674-1:2016, *Rubber- or plastics-coated fabrics — Determination of tear resistance — Part 1: Constant rate of tear methods (ISO 4674-1:2016)*

EN ISO 9237:1995, *Textiles — Determination of permeability of fabrics to air (ISO 9237:1995)*

EN ISO 11092:2014, *Textiles — Physiological effects — Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test) (ISO 11092:2014)*

EN ISO 13688:2013, *Protective clothing — General requirements (ISO 13688:2013)*

A1 EN ISO 13688:2013/A1:2021, *Protective clothing — General requirements — Amendment 1 (ISO 13688:2013/Amd 1:2021)* **A1**

A1 EN ISO 13938-1:2019, *Textiles — Bursting properties of fabrics — Part 1: Hydraulic method for determination of bursting strength and bursting distension (ISO 13938-1:2019)* **A1**

A1 EN ISO 13938-2:2019, *Textiles — Bursting properties of fabrics — Part 2: Pneumatic method for determination of bursting strength and bursting distension (ISO 13938-2:2019)* **A1**

EN ISO 15831:2004, *Clothing — Physiological effects — Measurement of thermal insulation by means of a thermal manikin (ISO 15831:2004)*

A1 ISO 7000:2019, *Graphical symbols for use on equipment — Registered symbols* **A1**