BS EN 469:2014

BSI Standards Publication

Protective clothing for firefighters — Performance requirements for protective clothing for firefighting

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National foreword

This British Standard is the UK implementation of EN 469:2014. It supersedes BS EN 469:2005 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PH/3/2, Heat and Flame Personal Protective Equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Protective clothing for firefighters - Performance requirements for protective clothing for firefighting

Vêtements de protection pour sapeurs pompiers - Exigences de performance pour les vêtements de protection pour la lutte contre l'incendie

Schutzkleidung für die Feuerwehr - Leistungsanforderungen für Schutzkleidung für die Brandbekämpfung

This European Standard was approved by CEN on 7 May 2014.

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Full document details: BS EN 469:2014

Contents

Page

Foreword 4
Introduction 6
1 Scope 7
2 Normative references 7
3 Terms and definitions 8
4 General clothing design 11
4.1 General 11
4.2 Size designation 11
4.3 Type of clothing 11
4.4 Interface areas 11
4.5 Anti-wicking barrier 11
4.6 Drain mesh material 11
4.7 Hardware 11
4.8 Integrated personal protective equipment (PPE) 12
4.9 Closure system 12
4.10 Retroreflective/fluorescent material 12
5 Sampling and pre-treatment 12
5.1 Sampling 12
5.2 Pre-treatment 12
5.3 Finishing deterioration by cleaning 13
5.4 Conditioning 13
6 Physical requirements 13
6.1 General 13
6.2 Flame spread 14
6.3 Heat transfer – Flame (marked with X1 or X2) 15
6.4 Heat transfer – Radiation (marked with X1 or X2) 15
6.5 Residual tensile strength of material when exposed to radiant heat 16
6.6 Heat resistance 16
6.7 Tensile strength 16
6.8 Tear strength 16
6.9 Surface wetting 16
6.10 Dimensional change 17
6.11 Resistance to penetration by liquid chemicals 17
6.12 Resistance to water penetration (marked with Y1 or Y2) 17
6.13 Water vapour resistance (marked with Z1 or Z2) 18
6.14 Visibility material requirements 18
6.14.1 Area of visibility material 18
6.14.2 Photometric requirements 18
6.15 Additional test on garment (optional) 18
7 Marking 19
8 Information supplied by the manufacturer 20
Annex A (normative) Uncertainty of measurement 21
Annex B (normative) Determination of performance and rating classification 22
Annex C (normative) Significant technical changes between this document and the previous edition EN 469:2005 23

Documents
Document Sharing Hub
Full document details: BS EN 469:2014

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC **24**

Bibliography **25**

Documents
Document Sharing Hub

Full document details: BS EN 469:2014

Foreword

This document (EN 469:2014) 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 January 2015, and conflicting national standards shall be withdrawn at the latest by January 2015.

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

This document supersedes EN 469:2005.

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

For relationship with EU Directive 89/686/EEC, see informative Annex ZA which is an integral part of this document.

It is one of several standards for clothing that have been developed to protect persons against heat and/or flames. Some examples of other European and International Standards are:

— EN 1486:2007, *Protective clothing for fire-fighters — Test methods and requirements for reflective clothing for specialized fire-fighting*;

— EN 13911:2004, *Protective clothing for firefighters — Requirements and test methods for fire hoods for firefighters*;

— EN 15614:2007, *Protective clothing for firefighters — Laboratory test methods and performance requirements for wildland clothing*;

— EN ISO 11611:2007, *Protective clothing for use in welding and allied processes*;

— EN ISO 11612:2008, *Protective clothing — Clothing to protect against heat and flame*;

— EN ISO 14116:2008, *Protective clothing- protection against heat and flame - Limited flame spread materials, material assemblies and clothing*;

— EN ISO 14460:1999, *Protective clothing for automobile racing drivers — Protection against heat and flame — Performance requirements and test methods*;

— ISO 15384:2003, *Protective clothing for firefighters — Laboratory test methods and performance requirements for wildland firefighting clothing*;

— ISO 11613:1999, *Protective clothing for firefighters — Laboratory test methods and performance requirements*;

— ISO 15538:2001, *Protective clothing for firefighters — Laboratory test methods and performance requirements for protective clothing with a reflective outer surface*;

— IEC 61482-2:2009, *Protective clothing against the thermal hazards of an electric arc — Part 2: Requirements*

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech

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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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

The purpose of this European Standard is to provide minimum performance requirements for protective clothing for fire fighters.

Nothing in this European Standard is intended to restrict any jurisdiction, purchaser or manufacturer from exceeding these minimum requirements.

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1 Scope

This European Standard specifies minimum levels of performance requirements for protective clothing against heat and fire designed to be worn during firefighting operations, except protective clothing that is worn during fighting wildland fires (EN 15614) or specialized firefighting (EN 1486).

Within this European Standard, two performance levels are given for performance requirements 6.3, 6.4, 6.12 and 6.13:

— thermal protection level two (marked with X2) is the higher level;

— thermal level one (marked with X1) is the lower level.

This European Standard covers the general clothing design, the minimum performance levels of the materials used, the methods of test to be used to determine these performance levels, and marking and information supplied by the manufacturer.

Neither does this European Standard cover the protection against other hazards, such as chemical, electrical, biological, radiological or high-visibility hazards, nor does it cover the protection for the head, hands or feet. These aspects may be covered in other European Standards. However, the event of small accidental splashes of chemicals or flammable liquids is covered by 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 20811:1992, *Textiles - Determination of resistance to water penetration - Hydrostatic pressure test*

EN 31092:1993, *Textiles - Determination of physiological properties - Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded - hotplate test) (ISO 11092:1993)*

EN ISO 1421:1998, *Rubber- or plastics-coated fabrics - Determination of tensile strength and elongation at break (ISO 1421:1998)*

EN ISO 4674-1:2003, *Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 1: Constant rate of tear methods (ISO 4674-1:2003)*

EN ISO 4920:2012, *Textile fabrics - Determination of resistance to surface wetting (spray test) (ISO 4920:2012)*

EN ISO 5077:2008, *Textiles - Determination of dimensional change in washing and drying (ISO 5077:2007)*

EN ISO 6530:2005, *Protective clothing - Protection against liquid chemicals - Test method for resistance of materials to penetration by liquids (ISO 6530:2005)*

EN ISO 6942:2002, *Protective clothing - Protection against heat and fire - Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat (ISO 6942:2002)*

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

EN ISO 13934-1:2013, *Textiles - Tensile properties of fabrics - Part 1: Determination of maximum force and elongation at maximum force using the strip method (ISO 13934-1:2013)*

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