

This is a preview of "BS EN 407:2020". [Click here to purchase the full version from the ANSI store.](#)



BSI Standards Publication

## **Protective gloves and other hand protective equipments against thermal risks (heat and/or fire)**

---

This is a preview of "BS EN 407:2020". [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of EN 407:2020. It supersedes BS EN 407:2004, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PH/3/8, Protective gloves.

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.

© The British Standards Institution 2020  
Published by BSI Standards Limited 2020

ISBN 978 0 580 98977 3

ICS 13.340.40

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

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 April 2020.

### Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

---

This is a preview of "BS EN 407:2020". [Click here to purchase the full version from the ANSI store.](#)

## EUROPÄISCHE NORM

April 2020

ICS 13.340.40

Supersedes EN 407:2004

English Version

## Protective gloves and other hand protective equipments against thermal risks (heat and/or fire)

Gants de protection et autres équipements protecteur  
de la main contre les risques thermiques (chaleur  
et/ou feu)

Schutzhandschuhe und andere Handschutzausrüstung  
gegen thermische Risiken (Hitze und/oder Feuer)

This European Standard was approved by CEN on 21 October 2019.

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, 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, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

This is a preview of "BS EN 407:2020". [Click here to purchase the full version from the ANSI store.](#)

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Introduction</b> .....	<b>4</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>6</b>
<b>4 General requirements</b> .....	<b>7</b>
4.1 <b>General</b> .....	<b>7</b>
4.2 <b>Cleaning</b> .....	<b>7</b>
4.3 <b>Mechanical strength</b> .....	<b>8</b>
4.4 <b>Sizes and dimensions</b> .....	<b>8</b>
4.5 <b>Thermal performances</b> .....	<b>8</b>
<b>5 Sampling and conditioning</b> .....	<b>11</b>
<b>6 Test methods</b> .....	<b>11</b>
6.1 <b>General</b> .....	<b>11</b>
6.2 <b>Limited flame spread</b> .....	<b>12</b>
6.3 <b>Contact heat</b> .....	<b>14</b>
6.4 <b>Convective heat</b> .....	<b>14</b>
6.5 <b>Radiant heat</b> .....	<b>15</b>
6.6 <b>Small splashes of molten metal</b> .....	<b>16</b>
6.7 <b>Large quantities of molten metal</b> .....	<b>16</b>
6.8 <b>Tear resistance</b> .....	<b>17</b>
<b>7 Marking</b> .....	<b>20</b>
<b>8 Information supplied by the manufacturer</b> .....	<b>22</b>
<b>Annex A (informative) Examples of hands protective equipment for thermal domestic risks</b> .....	<b>24</b>
<b>Annex B (informative) Example of relevant tests to be performed depending of the field of use of the product</b> .....	<b>25</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of Regulation 2016/425 aimed to be covered</b> .....	<b>26</b>
<b>Bibliography</b> .....	<b>27</b>

This is a preview of "BS EN 407:2020". [Click here to purchase the full version from the ANSI store.](#)

## European foreword

This document (EN 407:2020) 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 October 2020, and conflicting national standards shall be withdrawn at the latest by April 2021.

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 407:2004.

The major changes are:

- New tests 6.2, 6.3, 6.4, 6.8;
- Mechanical strength;
- Hand protective equipment;
- New pictogram Figure 7;
- Clause 8 (information supplied by the manufacturer: revised);
- New Annex A;
- New Annex B.

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 Regulation.

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

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, Turkey and the United Kingdom.

This is a preview of "BS EN 407:2020". [Click here to purchase the full version from the ANSI store.](#)

## **Introduction**

This document has been developed to cover all type of Personal Protective Equipment protecting the hand, a part of the hand or a part of the arm against thermal risks, no matter where they are used (professional use, consumer, domestic use...).

This is a preview of "BS EN 407:2020". [Click here to purchase the full version from the ANSI store.](#)

## 1 Scope

This document specifies requirements, test methods, marking and information for protective gloves and other hand protective equipment's against thermal risks for professional use, consumer, domestic use.

This document is also applicable to arm protective equipment.

It is used for all gloves and other hand protective equipment's which protect the hands or part of the hand against heat and/or fire in one or more of the following forms: flame, contact heat, convective heat, radiant heat, small splashes or large quantities of molten metal.

This document is only applicable in conjunction with EN ISO 21420:2020.

This document does not apply to gloves for fire-fighters or welding that have their own standards.

## 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 348:1992, *Protective clothing — Test method: Determination of behaviour of materials on impact of small splashes of molten metal*

EN ISO 21420:2020, *Protective gloves — General requirements and test methods (ISO 21420:2020)*

EN 659:2003+A1:2008, *Protective gloves for firefighters*

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)*

EN ISO 7500-1:2018, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system (ISO 7500-1:2018)*

EN ISO 9151:2016, *Protective clothing against heat and flame — Determination of heat transmission on exposure to flame (ISO 9151)*

EN ISO 9185:2007, *Protective clothing — Assessment of resistance of materials to molten metal splash (ISO 9185)*

EN ISO 12127-1:2015, *Clothing for protection against heat and flame — Determination of contact heat transmission through protective clothing or constituent materials — Part 1: Contact heat produced by heating cylinder (ISO 12127-1)*

EN ISO 15025:2016, *Protective clothing — Protection against flame — Method of test for limited flame spread (ISO 15025)*