

SVENSK STANDARD

SS-EN 1869:2019



Fastställt/Approved: 2019-08-23
Utgåva/Edition: 2
Språk/Language: engelska/English
ICS: 13.220.10

Brand och räddning – Släckredskap – Brandfiltar

Fire blankets

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Denna standard ersätter SS-EN 1869, utgåva 1.

The European Standard EN 1869:2019 has the status of a Swedish Standard. This document contains the official version of EN 1869:2019.

This standard supersedes the SS-EN 1869, edition 1.

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Denna standard är framtagen av kommittén för Släckredskap, SIS/TK 360/AG 01.

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EUROPEAN STANDARD

EN 1869

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2019

ICS 13.220.10

Supersedes EN 1869:1997

English Version

Fire blankets

Couvertures anti-feu

Löschdecken

This European Standard was approved by CEN on 26 May 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.

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

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

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European foreword

This document (EN 1869:2019) has been prepared by Technical Committee CEN/TC 70 “Manual means of firefighting equipment”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by February 2020, and conflicting national standards shall be withdrawn at the latest by February 2020.

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.

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Introduction

Fire blankets are one of the means for fighting certain type of small fires at their initial stage.

This document assesses their suitability for use and specifies requirements for their firefighting performance, construction, marking, packaging and preservation.

Some materials used for fire blankets may be degraded or even burn on prolonged contact with flame, but the committee consider that this should not restrict the use, for the purposes described here, of materials which meet the performance requirements of this document.

1 Scope

This document specifies requirements for fire blankets which are not reusable and that are intended for use by one person.

It specifies requirements for fire blankets usable to control small fires. It also limits the risk of electric shock in case of unintentional use on live electrical equipment.

Fire blankets that are large enough are considered suitable to be used for smothering persons whose clothes are on fire.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

fire blanket

flexible sheet of material intended to be used to extinguish small fires by smothering

3.2

type

fire blanket material combined with a given size

3.3

model

fire blanket type combined with a given container

4 Construction

4.1 All samples shall be conditioned in accordance with Annex A, A.1 and A.5 prior to testing.

4.2 The fire blanket shall be made of one or more sheets of material assembled together.

4.3 The size of each sheet shall be the same as the size of the entire blanket.

The two sides shall be similar in performance.

4.4 There shall be no seams in the fire blanket except as follows:

- a) where the hand-holding devices are fixed;
- b) at any edge;
- c) applying layers together.

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4.5 Hand holding devices shall:

- a) not comprise loops;
- b) be self-extinguishing after being subjected for 5 s to a gas flame located below at 2 cm from the material surface. The flame generated by a pocket lighter is suitable for the purpose;
- c) not become detached from the fire blanket during any of the testing specified in this document.

4.6 Fire blankets shall be rectangular or square and no edge shall be less than 1,0 m and no more than 1,8 m.

Only fire blankets of minimum size 1,2 m × 1,8 m are considered suitable for smothering persons whose clothes are on fire.

4.7 The total mass of any fire blanket (without its container) shall not exceed 4,5 kg.

4.8 A fire blanket shall be packed in a protective container.

NOTE Container can be flexible or rigid material.

The container shall be designed, such that it does not damage the fire blanket at any time (during installation, inspection or use).

4.9 The container shall be fitted with a visible means of indicating whether the blanket is inside.

NOTE This requirement is fulfilled where hand holding device(s) is (are) visible outside of the container.

4.10 The edges of the fire blankets shall not fray or tear.

4.11 Protection against microorganism or insect should be taken into consideration, either through material treatment or via suitable container design.

5 General performance

5.1 Except for 5.3, all samples shall be conditioned in accordance with Annex A, A.1, A.2 and A.5 prior to testing.

5.2 Fire blankets shall be capable of being rolled completely around a (50 ± 2) mm diameter bar, and along any axes parallel to adjacent sides, without permanent deformation.

5.3 For this test, 3 samples shall be in their original supply conditions and accordingly shall be preconditioned in accordance with Annex A, A.1 and A.5 prior to testing.

The force required to remove the fire blanket from the container fitted with its indicative device shall not exceed 80 N.

When stowed or packed in the container in accordance with the manufacturer's instructions, it shall be possible for a fire blanket to be taken from the stowed position, unfolded and held ready for use in not more than 4 s.

5.4 When tested in accordance with Annex B, the electrical resistance of the blanket material shall be not less than 1 M Ω at any point.

5.5 The edges of the fire blankets shall not fray or tear during any of the tests specified in Annexes A to D.

6 Fire performance

6.1 All samples shall be conditioned in accordance with Annex A, A.1 to A.4 prior to testing.

6.2 Each type of fire blanket shall be capable of extinguishing the cooking oil fire and the heptane fire as described in Annex C and Annex D.

6.3 The fire blanket shall remain whole and not ignite during the tests.

6.4 Testing for each fire blanket material shall be done with the smallest and the largest available size.

To cover a range of sizes, fire tests shall be successful on the smallest and on the largest size.

NOTE Different containers do not require different fire tests.

6.5 Video recording of the fire tests shall be carried out to establish compliance with those requirements.

7 Marking

7.1 All information and markings should be consistent and in plain language.

7.2 Each blanket shall be indelibly marked with the manufacturers or supplier's name and address, the number EN 1869 and CEN year of the CEN edition of this document and the model or type number.

7.3 The container shall be marked with the following in white lettering on a red background.

The location and layout of the markings and their font style and contrast should be such that they are legible and understood by users when the container is fixed in position.

Text shall be in at least one of the national languages of the country where the blanket is intended to be used.

The following markings shall be visible when the container is fixed in position:

- a) the words FIRE BLANKET in upper case letters not less than 20 mm high;
- b) the number and year of the CEN edition of this document;
- c) model or type number;
- d) blanket size in metres by metres;
- e) incorporate pictograms and instructions for:
 - 1) removal of fire blanket from container;
 - 2) application on fires of flammable material:
 - “switch off heat”;
 - “cover burning material completely”;
 - “leave covered until cool”;