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Explosives for civil uses - Detonating cords and safety fuses - Part 12: Determination of burning duration of safety fuses

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 13630-12:2025 sisaldab Euroopa standardi EN 13630-12:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 01.10.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 13630-12:2025 consists of the English text of the European standard EN 13630-12:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 01.10.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

EN 13630-12

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 13630-12:2002

English Version

## Explosives for civil uses - Detonating cords and safety fuses - Part 12: Determination of burning duration of safety fuses

Explosifs à usage civil - Cordeaux détonants et mèches de sûreté - Partie 12 : Détermination de la durée de combustion des mèches de sûreté

Explosivstoffe für zivile Zwecke - Sprengschnüre und Sicherheitsanzündschnüre - Teil 12: Bestimmung der Brenndauer von Sicherheitsanzündschnüren

This European Standard was approved by CEN on 15 September 2025.

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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  
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## European foreword

This document (EN 13630-12:2025) has been prepared by Technical Committee CEN/TC 321 “Explosives for civil uses”, the secretariat of which is held by UNE.

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 April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

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 13630-12:2002.

EN 13630-12:2025 includes the following significant technical changes with respect to EN 13630-12:2002:

- a) the Scope has been revised to clarify the explosives covered and not covered in the document;
- b) the normative references have been updated;
- c) the Clause 4 “Principle” has been added;
- d) the Clause “Apparatus” has been updated;
- e) the Clause “Test pieces” is now called “Preparation of test sample” and contains the conditioning of the test pieces;
- f) the Clause “Procedure” has been updated and does no longer contain the conditioning of the test pieces;
- g) the Clause 8 “Expression of results” has been added;
- h) the Clause “Test report” does no longer require conformity with EN ISO/IEC 17025 and the information to be provided has been updated and extended;
- i) the former Annex A “Range of applicability of the test method” has been removed;
- j) the Annex ZA has been updated;
- k) the Bibliography has been added and lists EN ISO/IEC 17025:2017.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

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

A list of all parts in the EN 13630 series, published under the general title *Explosives for civil uses — Detonating cords and safety fuses*, can be found on the CEN website.

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.

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## 1 Scope

This document specifies test methods for determining the burning duration of safety fuses.

This document does not apply to detonating cord.

## 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 13630-1:2025, *Explosives for civil uses — Detonating cords and safety fuses — Part 1: Requirements*

EN 13857-1:2025, *Explosives for civil uses — Part 1: Vocabulary*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13857-1:2025 apply.

## 4 Principle

The burning duration of safety fuses is determined by measurement of the time it takes for the combustion front to travel a distance of 1 m. Testing is done without confinement (see 7.2) and under confinement (see 7.3).

## 5 Apparatus

**5.1 Conditioning chamber**, capable to maintain the temperature at  $(20 \pm 2)$  °C and relative humidity at  $(65 \pm 10)$  % for a period of at least 8 days.

**5.2 Supporting device**, positioned horizontally with a length of at least 1 m, capable to hold the test piece without confinement.

EXAMPLE A V-shaped steel gutter.

**5.3 Tube**, together with a wooden plug and cardboard disc with the dimensions shown in Figure 1. The wooden plug and the cardboard disc have a hole of the diameter of the test piece in the middle. The tube shall be made from either plastic, metal, wood or cardboard.

**5.4 Time measuring device**, readable to the nearest 0,1 s.

**5.5 Quartz sand**, dried and with a grain size of  $\leq 1$  mm.

**5.6 Means of ignition**, for the safety fuse as specified in accordance with EN 13630-1:2025, 5.1.4.

**5.7 Barometer**, readable to the nearest 0,1 hPa.

**5.8 Thermometer** capable of measuring the ambient temperature at  $\pm 0,1$  °C.

**5.9 Hygrometer** capable of measuring the ambient relative humidity at  $\pm 1$  %.