

TSIVIILKÄIBES OLEVAD LÕHKEAINED.  
DETONEERNÖÖRID JA SÜÜTENÖÖRID. OSA 7:  
DETONEERNÖÖRIDE DETONATSIOONIKINDLUSE  
MÄÄRAMINE

Explosives for civil uses - Detonating cords and safety fuses - Part 7: Verification of reliability of initiation of detonating cords

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 13630-7:2025 sisaldab Euroopa standardi EN 13630-7:2025 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 13630-7:2025 consists of the English text of the European standard EN 13630-7:2025.</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 13630-7**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2025

ICS 71.100.30

Supersedes EN 13630-7:2002

English Version

## Explosives for civil uses - Detonating cords and safety fuses - Part 7: Verification of reliability of initiation of detonating cords

Explosifs à usage civil - Cordeaux détonants et mèches de sûreté - Partie 7 : Vérification de la fiabilité de l'amorçage des cordeaux détonants

Explosivstoffe für zivile Zwecke - Sprengschnüre und Sicherheitsanzündschnüre - Teil 7: Überprüfung der Zuverlässigkeit der Zündung von Sprengschnüren

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

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  
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## European foreword

This document (EN 13630-7:2025) 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 13630-7:2002.

EN 13630-7:2025 includes the following significant technical changes with respect to EN 13630-7:2002:

- a) the document title has been changed from “Part 7: Determination of reliability of initiation of detonating cords” to “Part 7: Verification of reliability of initiation of detonating cords”;
- b) the Scope has been revised to clarify the explosives covered and not covered in the document;
- c) the normative references have been updated;
- d) the Clause “Principle” has been updated;
- e) the Clause “Apparatus” has been updated and extended;
- f) the Clause “Test pieces” is now called “Preparation of test sample” and has been extended;
- g) the Clause “Procedure” has been updated and revised to include a witness detonator as means to verify complete detonation of detonating cords having a low output energy;
- h) the Clause 8 “Expression of results” has been added;
- i) 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;
- j) the Annex A “Range of applicability of the test method” has been removed;
- k) the Annex ZA has been updated;
- l) 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 a test method for the verification of the reliability of initiation of detonating cords.

This document does not apply to safety fuses.

## 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 573-3:2019+A2:2023, *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Part 3: Chemical composition and form of products*

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

EN 13763-1:2025, *Explosives for civil uses — Detonators and detonating cord relays — 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 reliability of initiation of detonating cords is important to prevent misfire of a blast.

For the verification of the reliability of initiation of detonating cords, a test piece is subjected to initiation by two detonators having different initiating capabilities. A reliable initiation is given when all test pieces detonate after being initiated by a detonator having an initiating capability of one level lower than the detonator that is specified as means of initiation for the detonating cord under test.

## 5 Apparatus

**5.1 Detonator A**, being the detonator specified as means of initiation for the tested detonating cord in accordance with EN 13630-1:2025, 4.1.4.

**5.2 Detonator B**, being a detonator with a quantity of base charge in accordance with EN 13763-1:2025, Table 1, one level lower than detonator A (5.1).

**5.3 Witness plate**, made from aluminium designated EN AW-6082 in accordance with EN 573-3:2019+A2:2023, Table 6, with a length of  $(50 \pm 10)$  mm, a width of at least 50 mm and a thickness of at least 10 mm.

**5.4 Witness detonator**, a plain detonator to be attached to the detonating cord to indicate complete detonation.

**5.5 Adhesive tape** made from paper or plastic.