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Explosives for civil uses - Detonating cords and safety fuses - Part 10: Determination of the index of initiating capability of detonating cords

EESTI STANDARDIMIS- JA AKREDITEERIMISKESKUS
ESTONIAN CENTRE FOR STANDARDISATION AND ACCREDITATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13630-10:2025 sisaldab Euroopa standardi EN 13630-10:2025 ingliskeelset teksti.	This Estonian standard EVS-EN 13630-10:2025 consists of the English text of the European standard EN 13630-10:2025.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 01.10.2025.	Date of Availability of the European standard is 01.10.2025.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Explosives for civil uses - Detonating cords and safety fuses - Part 10: Determination of the index of initiating capability of detonating cords

Explosifs à usage civil - Cordeaux détonants et mèches de sûreté - Partie 10 : Détermination de l'indice de la capacité d'allumage des cordeaux détonants

Explosivstoffe für zivile Zwecke - Sprengschnüre und Sicherheitsanzündschnüre - Teil 10: Bestimmung der Zündfähigkeit 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
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 13630-10:2025) 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 13630-10:2005.

EN 13630-10:2025 includes the following significant technical changes with respect to EN 13630-10:2005:

a) the document title has been changed from "Part 10: Determination of initiating capability of detonating cords" to "Determination of the index of initiating capability 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 revised;

e) the Clause "Apparatus" has been further detailed and extended;

f) the Clause "Test pieces" is now called "Preparation of test sample" and has been revised and extended to now include, e.g. a conditioning of the test pieces;

g) the Clause "Procedure" has been revised and further detailed to provide with clearer description of the steps;

h) the Clause "Calculation of results" has been removed;

i) the Clause 8 "Expression of results" has been added;

j) 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;

k) the former Annexes A "Range of applicability of the test method" and B "Restriction of the test method" have been removed;

l) the Annex ZA has been updated;

m) 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.

1 Scope

This document specifies a method for the determination of the index of initiating capability for detonating cords.

The test method specified in this document is intended to assess only the index of initiation capability of detonating cords. See EN 13630-7:2025 for a test method for the verification of the reliability of initiation.

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

EN 13630-7:2025, *Explosives for civil uses — Detonating cords and safety fuses — Part 7: Verification of reliability of initiation of detonating cords*

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

EN ISO 536:2020, *Paper and board — Determination of grammage (ISO 536:2019)*

3 Terms and definitions

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

4 Principle

The index of initiation capability of a detonating cord is determined by counting the number of paper cards which are cut when the detonating cord is detonated on top of a deck of paper cards.

5 Apparatus

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

5.2 Paper cards cut from wood free uncoated paper (WFU, UWF) of a grammage of 250 g/m^2 in accordance with EN ISO 536:2020, Clauses 5 to 9. Each paper card shall have a length of (100 ± 5) mm and a width of (50 ± 5) mm.

5.3 Support plate made from steel or aluminium with a length of (200 ± 20) mm, a width of (60 ± 5) mm and a thickness of at least 4,0 mm.

5.4 Adhesive tape made of paper, plastic, or textile material with a width of (20 ± 2) mm.

5.5 Means of sealing, for safety reasons, to close the open ends of the detonating cord test pieces. The means of sealing used shall not have a chemical affinity with the tested explosive. The means of sealing shall not affect the test result.

EXAMPLE Adhesive tape, made from paper or plastic, or rubber cups.

5.6 Length gauge with an accuracy of ±1 mm.