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PLAHVATUSOHTLIKUD AINED. OSA 10: LÕHKEAINETE
JA VÕIMENDUSLAENGUTE INITSIEERIMISVÕIMEKUSE
MÄÄRAMINE

Explosives for civil uses - Explosives for blasting,
boosters and explosive substances - Part 10:
Verification of the means of initiation of explosives for
blasting and boosters

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 13631-10:2025 sisaldab Euroopa standardi EN 13631-10:2025 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 13631-10:2025 consists of the English text of the European standard EN 13631-10:2025.</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 13631-10

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 13631-10:2003

English Version

**Explosives for civil uses - Explosives for blasting, boosters
and explosive substances - Part 10: Verification of the
means of initiation of explosives for blasting and boosters**

Explosifs à usage civil - Explosifs de mine,
renforçateurs, et substances explosives - Partie 10:
Vérification du moyen d'amorçage des explosifs et des
renforçateurs

Explosivstoffe für zivile Zwecke - Sprengstoffe,
Verstärkungsladungen und Explosivstoffe - Teil 10:
Überprüfung der Zündweise von Sprengstoffen und
Verstärkungsladungen

This European Standard was approved by CEN on 29 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

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

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European foreword

This document (EN 13631-10:2025) 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 13631-10:2003.

EN 13631-10:2025 includes the following significant technical changes with respect to EN 13631-10:2003:

- a) the document title has been changed from “High explosives — Part 10: Method for the verification of the means of initiation” to “Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 10: Verification of the means of initiation of explosives for blasting and boosters”;
- b) the Scope has been revised to clarify the covered and not covered explosives;
- c) the normative references have been updated;
- d) Clause 4 “Principle” has been revised and enlarged;
- e) Clause 5 “Apparatus” has been updated and enlarged and now also includes the equipment to verify complete detonation of boosters;
- f) Clause 6 “Test pieces” is now called “Preparation of test sample” and has been revised to distinguish between testing under and without confinement, to include booster test pieces and to condition test pieces at the minimum temperature of use as specified;
- g) Clause 7 “Procedure” has been enlarged and contains now the revised specifications regarding the assembly of the test piece (former subclause 6.4), specification regarding the attachment of the means to verify complete detonation as well as the measurement procedure;
- h) 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 revised and enlarged;
- j) former Annex A “Range of applicability of the test method” has been removed;
- k) 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 13631 series, published under the general title *Explosives for civil uses — Explosives for blasting, boosters and explosive substances*, 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 organizations 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 test methods for the verification of the initiation of explosives for blasting and boosters by its means of initiation.

The means of initiation for explosives for blasting covered in this document are detonators, detonating cords and boosters. The means of initiation for boosters covered in this document are detonators and detonating cords.

This document does not apply to black powder used for blasting and explosive substances.

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 10025-2:2019, *Hot rolled products of structural steels — Part 2: Technical delivery conditions for non-alloy structural steels*

EN 10216-1:2013, *Seamless steel tubes for pressure purposes — Technical delivery conditions — Part 1: Non-alloy steel tubes with specified room temperature properties*

EN 13631-1:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 1: Requirements*

EN 13631-14:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 14: Determination of velocity of detonation of explosives for blasting*

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.

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

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

4 Principle

The correct functioning of the means of initiation ensures safe, reliable and complete detonation of blasting explosives and boosters. The correct functioning of the means of initiation is verified through observation of complete detonation upon initiation of test pieces. In case of blasting explosives, complete detonation is given when the measured velocity of detonation of the test pieces is equal or higher than the value specified for the explosive in accordance with EN 13631-1:2025, 4.1.8. In case of boosters, complete detonation is either given the same way as for blasting explosives or by means of an indentation shown on a witness plate. Testing is done at the minimum temperature of use specified for the explosive.