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Explosives for civil uses - Explosives for blasting,
boosters and explosive substances - Part 1:
Requirements

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 13631-1:2025 sisaldab Euroopa standardi EN 13631-1:2025 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 13631-1:2025 consists of the English text of the European standard EN 13631-1:2025.</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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ICS 71.100.30

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EUROPEAN STANDARD

EN 13631-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 13631-1:2005, EN 13857-3:2002

English Version

Explosives for civil uses - Explosives for blasting, boosters and explosive substances - Part 1: Requirements

Explosifs à usage civil - Explosifs de mine,
renforçateurs, et substances explosives - Partie 1 :
Exigences

Explosivstoffe für zivile Zwecke - Sprengstoffe,
Verstärkungsladungen und Explosivstoffe - Teil 1:
Anforderungen

This European Standard was approved by CEN on 29 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
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Contents	Page
European foreword	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Requirements for explosives for blasting	7
4.1 Information to be provided for explosives for blasting	7
4.1.1 Temperature of use.....	7
4.1.2 Storage conditions.....	7
4.1.3 Mechanical loading.....	7
4.1.4 Means of initiation.....	7
4.1.5 Use in wet or humid conditions.....	7
4.1.6 Use in situations with hydrostatic pressure	8
4.1.7 Density	8
4.1.8 Velocity of detonation	8
4.1.9 Minimum diameter	8
4.2 Requirements on properties of explosives for blasting	8
4.2.1 Thermal stability.....	8
4.2.2 Insensitiveness to friction	8
4.2.3 Insensitiveness to impact	8
4.2.4 Resistance to water	9
4.2.5 Resistance to hydrostatic pressure	9
4.2.6 Means of initiation.....	9
4.2.7 Transmission of detonation.....	9
4.2.8 Density	9
4.2.9 Velocity of detonation	9
5 Requirements for black powder used for blasting	9
5.1 Information to be provided for black powder used for blasting	9
5.1.1 Temperature of use.....	9
5.1.2 Storage conditions.....	9
5.1.3 Use in wet or humid conditions.....	9
5.1.4 Electric igniter.....	10
5.1.5 Mechanical loading.....	10
5.1.6 Density	10
5.1.7 Burning rate.....	10
5.2 Requirements on properties of black powder used for blasting	10
5.2.1 Thermal stability.....	10
5.2.2 Insensitiveness to friction	10
5.2.3 Insensitiveness to impact	10
5.2.4 Density	10
5.2.5 Transmission of deflagration	10
5.2.6 Burning rate.....	10
6 Requirements for boosters	11
6.1 Information to be provided for boosters	11
6.1.1 Temperature of use.....	11

6.1.2	Storage conditions.....	11
6.1.3	Use in wet or humid conditions.....	11
6.1.4	Use in situations with hydrostatic pressure	11
6.1.5	Means of initiation.....	11
6.1.6	Density.....	11
6.2	Requirements on properties of boosters.....	11
6.2.1	Thermal stability	11
6.2.2	Resistance to water.....	12
6.2.3	Resistance to hydrostatic pressure.....	12
6.2.4	Means of initiation.....	12
6.2.5	Density.....	12
7	Requirements for explosive substances.....	12
7.1	Information to be provided for explosive substances.....	12
7.1.1	Temperature of use.....	12
7.1.2	Storage conditions.....	12
7.1.3	Density.....	12
7.2	Requirements on properties of explosive substances.....	12
7.2.1	Thermal stability	12
7.2.2	Insensitiveness to friction	12
7.2.3	Insensitiveness to impact	13
7.2.4	Density.....	13
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/28/EU relating to the making available on the market and supervision of explosives for civil uses aimed to be covered.....		14
Bibliography		19

European foreword

This document (EN 13631-1:2025) 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 supersedes EN 13631-1:2005.

Together with EN 13630-1:2025, EN 13763-1:2025 and EN 13938-1:2025 this document supersedes EN 13857-3:2002.

EN 13631-1:2025 includes the following significant technical changes with respect to EN 13631-1:2005:

- a) the document title has been changed from “Explosives for civil uses — High explosives — Part 1: Requirements” to “Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 1: Requirements”;
- b) the Scope has been revised completely so that the document now refers to explosives for blasting including black powder used for blasting as well as boosters and explosive substances;
- c) the normative references have been updated;
- d) the Clause 4 “Requirements” has been completely revised and is now called “Requirements for explosives for blasting”;
- e) a new Clause 5 “Requirements on black powder used for blasting”, a new Clause 6 “Requirements on boosters” and a new Clause 7 “Requirements on explosive substances” have been added;
- f) the requirements on information to be provided for explosives for blasting have been moved from EN 13857-3:2002 to the 4.1, 5.1, 6.1 and 7.1 in revised form;
- g) the former subclauses 4.6 “Safety at extreme temperatures”, 4.7 “Safety at loading” and 4.12 “Thermodynamic properties” and the corresponding requirements have been removed;
- h) the former Clause 5 “Other tests” including subclauses 5.1 “Toxic gases” and 5.2 “Explosives for use in hazardous environments” has been removed;
- i) the Annex ZA has been updated;
- j) the Bibliography has been added.

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 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 requirements for explosives for blasting, boosters and explosive substances.

This document also applies to black powder when used for blasting.

NOTE This document does not apply to black powder when used as propellant, for pyrotechnics or for safety fuses; for requirements for black powder used as propellant, for pyrotechnics or for safety fuses see EN 13938-1:2025.

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 13631-2:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 2: Verification of thermal stability*

EN 13631-3:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 3: Verification of the insensitiveness to friction of explosives for blasting and explosive substances*

EN 13631-4:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 4: Verification of the insensitiveness to impact of explosives for blasting and explosive substances*

EN 13631-5:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 5: Verification of the resistance to water of explosives for blasting and boosters*

EN 13631-6:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 6: Verification of the resistance to hydrostatic pressure of explosives for blasting and boosters*

EN 13631-10:2025, *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*

EN 13631-11:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 11: Verification of the transmission of detonation of cartridged explosives for blasting*

EN 13631-13:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 13: Verification of density*

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

EN 13631-17:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 17: Verification of transmission of deflagration of black powder used for blasting*

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*

EN 13938-4:2025, *Explosives for civil uses — Propellants and rocket propellants — Part 4: Determination of the burning rate of solid gun propellants and black powder*