

STN	Výbušniny na civilné použitie Trhaviny, zosilňovacie náplne a výbušné látky Časť 4: Overenie necitlivosti trhavín a výbušných látok na náraz	STN EN 13631-4 66 8082
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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

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/26

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13631-4

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Supersedes EN 13631-4:2002

English Version

**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**

Explosifs à usage civil - Explosifs de mine,
renforçateurs, et substances explosives - Partie 4:
Vérification de l'insensibilité à l'impact de explosifs de
mine et des substances explosives

Explosivstoffe für zivile Zwecke - Sprengstoffe,
Verstärkungsladungen und Explosivstoffe - Teil 4:
Überprüfung der Schlagempfindlichkeit von
Sprengstoffen und Explosivstoffen

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

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EN 13631-4:2025 (E)

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European foreword

This document (EN 13631-4:2025) 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 13631-4:2002.

EN 13631-4:2025 includes the following significant technical changes with respect to EN 13631-4:2002:

- a) the document title has been changed from “High explosives — Part 4: Determination of sensitiveness to impact of explosives” to “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”;
- b) the general concept of the document has been modified so that the sensitiveness to impact is no longer determined but the insensitiveness to a specific impact is verified;
- c) the Scope has been revised to clarify the covered and not covered explosives;
- d) the normative references have been updated;
- e) the terminology entries 3.1 to 3.4 have been removed;
- f) Clause 4 “Principle” has been updated and enlarged;
- g) Clause 5 “Apparatus” has been updated and Table 1 has been removed;
- h) the preparation of the test sample has been simplified;
- i) Clause 7 “Procedure” has been revised;
- j) Clause 8 “Expression of test results” has been added;
- k) the clause “Test report” does no longer require conformity with EN ISO/IEC 17025 and the information to be provided has been updated;
- l) Annex A “Range of applicability of the test method” has been removed;
- m) Annex ZA has been updated;
- n) the Bibliography has been added and lists, e.g. 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.

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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 a test method for the verification of the insensitiveness to impact of explosives for blasting and explosive substances.

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

This document does not apply to boosters.

This document also applies to solid gun propellants, solid rocket propellants, black powder used as propellants, for safety fuse or for pyrotechnics and powder cakes as covered by 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 13631-1:2025, *Explosives for civil uses — Explosives for blasting, boosters, and explosive substances — Part 1: Requirements*

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

EN 13938-1:2025, *Explosives for civil uses — Propellants and rocket propellants — Part 1: Requirements*

EN ISO 683-17:2023, *Heat-treated steels, alloy steels and free-cutting steels — Part 17: Ball and roller bearing steels (ISO 683-17:2023)*

EN ISO 6508-1:2023, *Metallic materials — Rockwell hardness test — Part 1: Test method (ISO 6508-1:2023)*

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